

Computer algebra independent integration tests

1-Algebraic-functions/1.2-Trinomial-products/1.2.3-General/1.2.3.5-P-x-d-
 $x^{-m-a+b-x^n+c-x^{-2-n-p}}$

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Chapter 1

Introduction

This report gives the result of running the computer algebra independent integration problems. The listing of the problems are maintained by and can be downloaded from <https://rulebasedintegration.org>

The number of integrals in this report is [17]. This is test number [49].

1.1 Listing of CAS systems tested

The following systems were tested at this time.

1. Mathematica 12.3 (64 bit) on windows 10.
2. Rubi 4.16.1 in Mathematica 12.1 on windows 10.
3. Maple 2021.1 (64 bit) on windows 10.
4. Maxima 5.44 on Linux. (via sagemath 9.3)
5. Fricas 1.3.7 on Linux (via sagemath 9.3)
6. Giac/Xcas 1.7 on Linux. (via sagemath 9.3)
7. Sympy 1.8 under Python 3.8.8 using Anaconda distribution on Ubuntu.
8. Mupad using Matlab 2021a with Symbolic Math Toolbox Version 8.7 under windows 10 (64 bit)

Maxima, Fricas and Giac/Xcas were called from inside SageMath. This was done using SageMath integrate command by changing the name of the algorithm to use the different CAS systems.

Sympy was called directly using Python.

1.2 Results

Important note: A number of problems in this test suite have no antiderivative in closed form. This means the antiderivative of these integrals can not be expressed in terms of elementary, special functions or Hypergeometric2F1 functions. RootSum and RootOf are not allowed.

If a CAS returns the above integral unevaluated within the time limit, then the result is counted as passed and assigned an A grade.

However, if CAS times out, then it is assigned an F grade even if the integral is not integrable, as this implies CAS could not determine that the integral is not integrable in the time limit.

If a CAS returns an antiderivative to such an integral, it is assigned an A grade automatically and this special result is listed in the introduction section of each individual test report to make it easy to identify as this can be important result to investigate.

The results given in in the table below reflects the above.

System	solved	Failed
Rubi	% 100.00 (17)	% 0.00 (0)
Mathematica	% 82.35 (14)	% 17.65 (3)
Maple	% 11.76 (2)	% 88.24 (15)
Maxima	% 11.76 (2)	% 88.24 (15)
Fricas	% 41.18 (7)	% 58.82 (10)
Sympy	% 5.88 (1)	% 94.12 (16)
Giac	% 23.53 (4)	% 76.47 (13)
Mupad	% 29.41 (5)	% 70.59 (12)

Table 1.1: Percentage solved for each CAS

The table below gives additional break down of the grading of quality of the antiderivatives generated by each CAS. The grading is given using the letters A,B,C and F with A being the best quality. The grading is accomplished by comparing the antiderivative generated with the optimal antiderivatives included in the test suite. The following table describes the meaning of these grades.

grade	description
A	Integral was solved and antiderivative is optimal in quality and leaf size.
B	Integral was solved and antiderivative is optimal in quality but leaf size is larger than twice the optimal antiderivatives leaf size.
C	Integral was solved and antiderivative is non-optimal in quality. This can be due to one or more of the following reasons <ol style="list-style-type: none"> 1. antiderivative contains a hypergeometric function and the optimal antiderivative does not. 2. antiderivative contains a special function and the optimal antiderivative does not. 3. antiderivative contains the imaginary unit and the optimal antiderivative does not.
F	Integral was not solved. Either the integral was returned unevaluated within the time limit, or it timed out, or CAS hanged or crashed or an exception was raised.

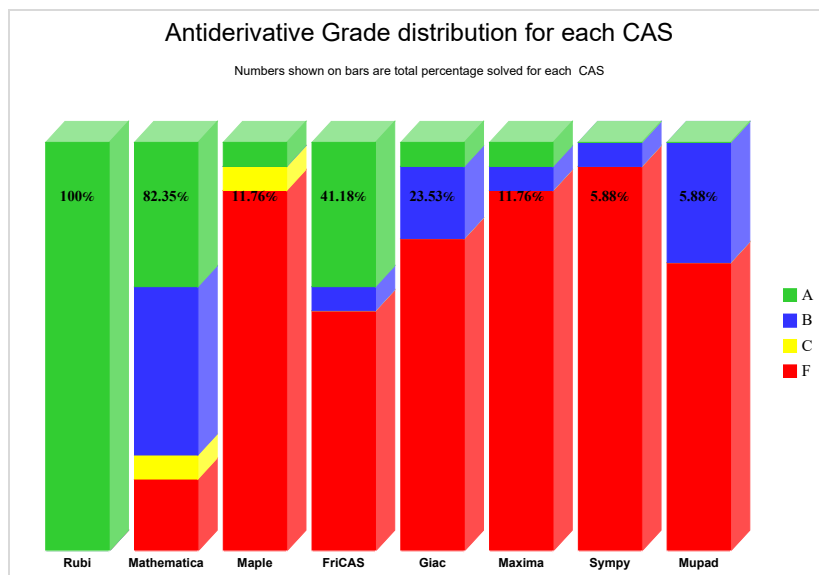
Table 1.2: Description of grading applied to integration result

Grading is implemented for all CAS systems. Based on the above, the following table summarizes the grading for this test suite.

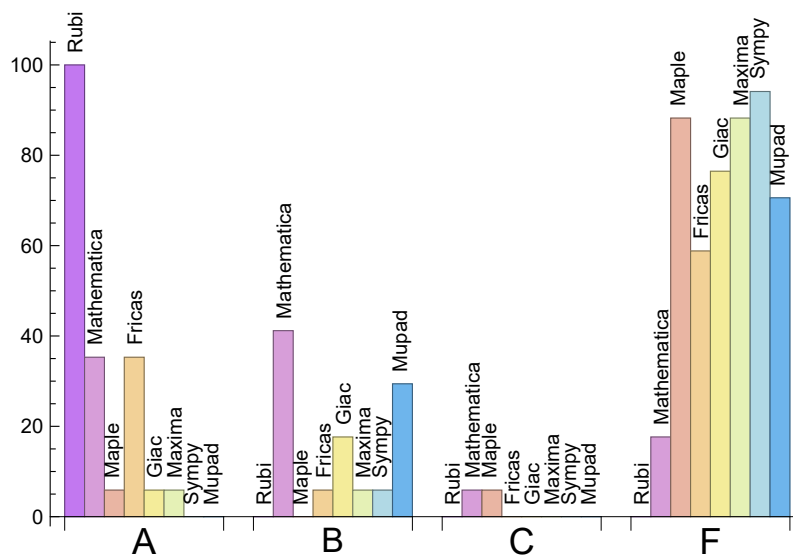
System	% A grade	% B grade	% C grade	% F grade
Rubi	100.00	0.00	0.00	0.00
Mathematica	35.29	41.18	5.88	17.65
Maple	5.88	0.00	5.88	88.24
Maxima	5.88	5.88	0.00	88.24
Fricas	35.29	5.88	0.00	58.82
Sympy	0.00	5.88	0.00	94.12
Giac	5.88	17.65	0.00	76.47
Mupad	0.00	29.41	0.00	70.59

Table 1.3: Antiderivative Grade distribution of each CAS

The following is a Bar chart illustration of the data in the above table.



The figure below compares the CAS systems for each grade level.



The following table shows the distribution of the different types of failure for each CAS. There are 3 types of reasons why it can fail. The first is when CAS returns back the input within the time limit, which means it could not solve it. This is the typical normal failure **F**.

The second is due to time out. CAS could not solve the integral within the 3 minutes time limit which is assigned **F(-1)**.

The third is due to an exception generated. Assigned **F(-2)**. This most likely indicates an interface problem between sagemath and the CAS (applicable only to FriCAS, Maxima and Giac) or it could be an indication of an internal error in CAS. This type of error requires more investigations to determine the cause.

System	Number failed	Percentage normal failure	Percentage time-out failure	Percentage exception failure
Rubi	0	0.00 %	0.00 %	0.00 %
Mathematica	3	0.00 %	100.00 %	0.00 %
Maple	15	100.00 %	0.00 %	0.00 %
Maxima	15	100.00 %	0.00 %	0.00 %
Fricas	10	90.00 %	10.00 %	0.00 %
Sympy	16	18.75 %	81.25 %	0.00 %
Giac	13	92.31 %	7.69 %	0.00 %
Mupad	12	100.00 %	0.00 %	0.00 %

Table 1.4: Time and leaf size performance for each CAS

1.3 Performance

The table below summarizes the performance of each CAS system in terms of CPU time and leaf size of results.

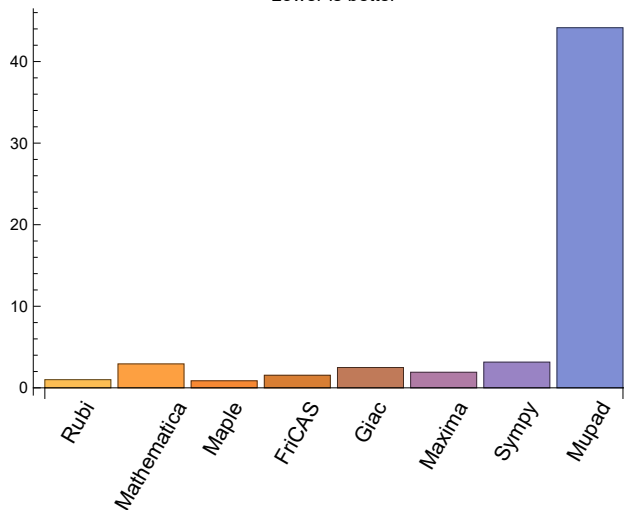
System	Mean time (sec)	Mean size	Normalized mean	Median size	Normalized median
Rubi	0.85	457.12	1.00	263.00	1.00
Mathematica	2.64	2029.07	2.93	490.50	2.00
Maple	0.03	83.50	0.87	83.50	0.87
Maxima	1.20	47.50	1.91	47.50	1.91
Fricas	0.66	85.00	1.54	69.00	1.45
Sympy	50.33	63.00	3.15	63.00	3.15
Giac	10.53	97.00	2.49	81.00	2.90
Mupad	10.00	71874.60	44.15	50.00	1.72

Table 1.5: Time and leaf size performance for each CAS

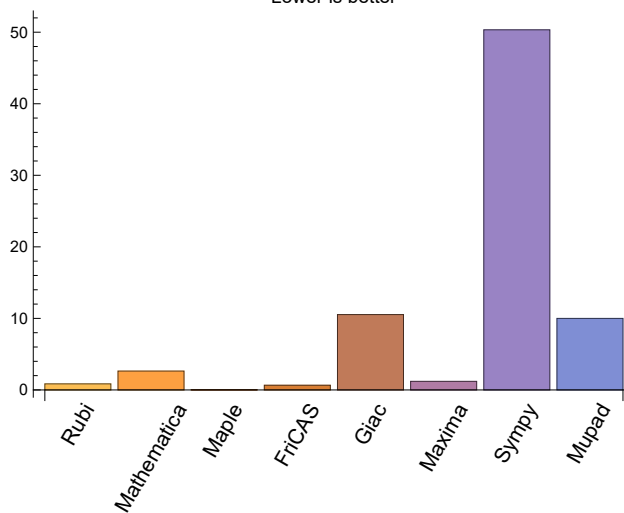
The following are bar charts for the normalized leafsize and time used columns from the above table.

Normalized mean size of antiderivative

Lower is better

**Mean time used (seconds)**

Lower is better



1.4 list of integrals that has no closed form antiderivative

{

1.5 list of integrals solved by CAS but has no known antiderivative

Rubi {}

Mathematica {}

Maple {}

Maxima {}

Fricas {}

Sympy {}

Giac {}

Mupad {}

1.6 list of integrals solved by CAS but failed verification

The following are integrals solved by CAS but the verification phase failed to verify the anti-derivative produced is correct. This does not mean necessarily that the anti-derivative is wrong, as additional methods of verification might be needed, or more time is needed (3 minutes time limit was used). These integrals are listed here to make it easier to do further investigation to determine why it was not possible to verify the result produced.

Rubi {}

Mathematica {8,9}

Maple Verification phase not implemented yet.

Maxima Verification phase not implemented yet.

Fricas Verification phase not implemented yet.

Sympy Verification phase not implemented yet.

Giac Verification phase not implemented yet.

Mupad Verification phase not implemented yet.

1.7 Timing

The command `AbsoluteTiming[]` was used in Mathematica to obtain the elapsed time for each integrate call. In Maple, the command `Usage` was used as in the following example

```
cpu_time := Usage(assign ('result_of _int',int(expr,x)),output='realtime')
```

For all other CAS systems, the elapsed time to complete each integral was found by taking the difference between the time after the call has completed from the time before the call was made. This was done using Python's `time.time()` call.

All elapsed times shown are in seconds. A time limit of 3 minutes was used for each integral. If the integrate command did not complete within this time limit, the integral was aborted and considered to have failed and assigned an F grade. The time used by failed integrals due to time out is not counted in the final statistics.

1.8 Verification

A verification phase was applied on the result of integration for Rubi and Mathematica. Future version of this report will implement verification for the other CAS systems. For the integrals whose result was not run through a verification phase, it is assumed that the antiderivative produced was correct.

Verification phase has 3 minutes time out. An integral whose result was not verified could still be correct. Further investigation is needed on those integrals which failed verifications. Such integrals are marked in the summary table below and also in each integral separate section so they are easy to identify and locate.

1.9 Important notes about some of the results

1.9.1 Important note about Maxima results

Since these integrals are run in a batch mode, using an automated script, and by using `sagemath` (SageMath uses Maxima), then any integral where Maxima needs an interactive response from the user to answer a question during evaluation of the integral in order to complete the integration, will fail and is counted as failed.

The exception raised is `ValueError`. Therefore Maxima result below is lower than what could result if Maxima was run directly and each question Maxima asks was answered correctly.

The percentage of such failures were not counted for each test file, but for an example, for the Timofeev test file, there were about 14 such integrals out of total 705, or about 2 percent. This percentage can be higher or lower depending on the specific input test file.

Such integrals can be indentified by looking at the output of the integration in each section for Maxima. The exception message will indicate of the error is due to the interactive question being asked or not.

Maxima integrate was run using SageMath with the following settings set by default

```
'besselexpand : true'
'display2d : false'
'domain : complex'
'keepfloat : true'
'load(to_poly_solve)'
'load(simplify_sum)'
'load(abs_integrate)' 'load(diag)'
```

SageMath loading of Maxima abs_integrate was found to cause some problem. So the following code was added to disable this effect.

```
from sage.interfaces.maxima_lib import maxima_lib
maxima_lib.set('extra_definite_integration_methods', '[]')
maxima_lib.set('extra_integration_methods', '[]')
```

See <https://ask.sagemath.org/question/43088/integrate-results-that-are-different-from-using-maxima/> for reference.

1.9.2 Important note about FriCAS and Giac/X-CAS results

There are Few integrals which failed due to SageMath not able to translate the result back to SageMath syntax and not because these CAS system were not able to do the integrations.

These will fail With error `Exception raised: NotImplementedError`

The number of such cases seems to be very small. About 1 or 2 percent of all integrals.

Hopefully the next version of SageMath will have complete translation of FriCAS and XCAS syntax and I will re-run all the tests again when this happens.

1.9.3 Important note about finding leaf size of antiderivative

For Mathematica, Rubi and Maple, the builtin system function `LeafSize` is used to find the leaf size of each antiderivative.

The other CAS systems (SageMath and Sympy) do not have special builtin function for this purpose at this time. Therefore the leaf size for Fricas and Sympy and Giac antiderivatives is determined using the following function, thanks to user slelievre at <https://>

ask.sagemath.org/question/57123/could-we-have-a-leaf_count-function-in-base-sagemath/

```
def tree_size(expr):
    r"""
    Return the tree size of this expression.
    """
    if expr not in SR:
        # deal with lists, tuples, vectors
        return 1 + sum(tree_size(a) for a in expr)
    expr = SR(expr)
    x, aa = expr.operator(), expr.operands()
    if x is None:
        return 1
    else:
        return 1 + sum(tree_size(a) for a in aa)
```

For Sympy, which is called directly from Python, the following code is used to obtain the leafsize of its result

```
try:
    # 1.7 is a fudge factor since it is low side from actual leaf count
    leafCount = round(1.7*count_ops(anti))

except Exception as ee:
    leafCount = 1
```

1.9.4 Important note about Mupad results

Matlab's symbolic toolbox does not have a leaf count function to measure the size of the antiderivative, Maple was used to determine the leaf size of Mupad output by post processing.

Currently no grading of the antiderivative for Mupad is implemented. If it can integrate the problem, it was assigned a B grade automatically as a placeholder. In the future, when grading function is implemented for Mupad, the tests will be rerun again.

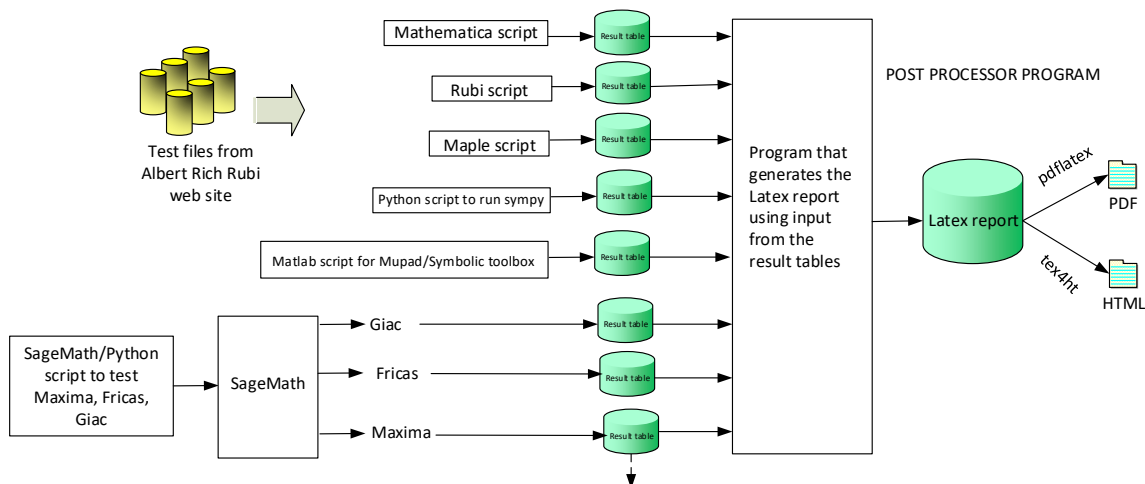
The following is an example of using Matlab's symbolic toolbox (Mupad) to solve an integral

```
integrand = evalin(symengine, 'cos(x)*sin(x)')
the_variable = evalin(symengine, 'x')
anti = int(integrand, the_variable)
```

Which gives $\sin(x)^2/2$

1.10 Design of the test system

The following diagram gives a high level view of the current test build system.



One record (line) per one integral result. The line is CSV comma separated. This is description of each record

1. integer, the problem number.
 2. integer. 0 for failed, 1 for passed, -1 for timeout, -2 for CAS specific exception. (this is not the grade field)
 3. integer. Leaf size of result.
 4. integer. Leaf size of the optimal antiderivative.
 5. number. CPU time used to solve this integral. 0 if failed.
 6. string. The integral in Latex format
 7. string. The input used in CAS own syntax.
 8. string. The result (antiderivative) produced by CAS in Latex format
 9. string. The optimal antiderivative in Latex format.
 10. integer. 0 or 1. Indicates if problem has known antiderivative or not
 11. String. The result (antiderivative) in CAS own syntax.
 12. String. The grade of the antiderivative. Can be "A", "B", "C", or "F"
- The following field present only in Rubi and Mathematica Tables*
13. integer. 1 if result was verified or 0 if not verified.
- The following fields present only in Rubi Tables*
14. integer. Number of rules used.
 15. integer. Integrand leaf size.
 16. real number. Ratio of field 14 over field 15
 17. integer. 1 if result was verified or 0 if not verified.
 18. String of form "{n,n,...}" which is list of the rules used by Rubi

High level overview of the CAS independent integration test build system

Chapter 2

detailed summary tables of results

2.1 List of integrals sorted by grade for each CAS

2.1.1 Rubi

A grade: { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 }

B grade: { }

C grade: { }

F grade: { }

2.1.2 Mathematica

A grade: { 3, 6, 11, 12, 13, 16 }

B grade: { 2, 4, 5, 7, 8, 9, 17 }

C grade: { 1 }

F grade: { 10, 14, 15 }

2.1.3 Maple

A grade: { 11 }

B grade: { }

C grade: { 1 }

F grade: { 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17 }

2.1.4 Maxima

A grade: { 11 }

B grade: { 16 }

C grade: { }

F grade: { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 17 }

2.1.5 FriCAS

A grade: { 10, 11, 12, 13, 14, 15 }

B grade: { 16 }

C grade: { }

F grade: { 1, 2, 3, 4, 5, 6, 7, 8, 9, 17 }

2.1.6 Sympy

A grade: { }

B grade: { 11 }

C grade: { }

F grade: { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17 }

2.1.7 Giac

A grade: { 12 }

B grade: { 11, 14, 16 }

C grade: { }

F grade: { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 17 }

2.1.8 Mupad

A grade: { }

B grade: { 1, 11, 12, 14, 16 }

C grade: { }

F grade: { 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 17 }

2.2 Detailed conclusion table per each integral for all CAS systems

Detailed conclusion table per each integral is given by table below. The elapsed time is in seconds. For failed result it is given as F(-1) if the failure was due to timeout. It is given as F(-2) if the failure was due to an exception being raised, which could indicate a bug in the system. If the failure was due to integral not being evaluated within the time limit, then it is given just an F.

In this table, the column **normalized size** is defined as $\frac{\text{antiderivative leaf size}}{\text{optimal antiderivative leaf size}}$

Problem 1	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	C	C	F	F(-1)	F(-1)	F(-1)	B
verified	N/A	Yes	Yes	TBD	TBD	TBD	TBD	TBD	TBD
size	1668	1668	223	134	0	0	0	0	359169
normalized size	1	1.00	0.13	0.08	0.00	0.00	0.00	0.00	215.33
time (sec)	N/A	4.008	1.681	0.017	0.000	0.000	0.000	0.000	40.553
Problem 2	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	B	F	F	F	F	F	F
verified	N/A	Yes	Yes	TBD	TBD	TBD	TBD	TBD	TBD
size	124	124	261	0	0	0	0	0	-1
normalized size	1	1.00	2.10	0.00	0.00	0.00	0.00	0.00	-0.01
time (sec)	N/A	0.085	0.272	0.000	0.000	0.649	0.000	0.000	0.000
Problem 3	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	A	F	F	F	F	F	F
verified	N/A	Yes	Yes	TBD	TBD	TBD	TBD	TBD	TBD
size	263	263	525	0	0	0	0	0	-1
normalized size	1	1.00	2.00	0.00	0.00	0.00	0.00	0.00	-0.00
time (sec)	N/A	0.255	1.191	0.030	0.000	0.906	0.000	0.000	0.000

Problem 4	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	B	F	F	F	F	F	F
verified	N/A	Yes	Yes	TBD	TBD	TBD	TBD	TBD	TBD
size	404	404	834	0	0	0	0	0	-1
normalized size	1	1.00	2.06	0.00	0.00	0.00	0.00	0.00	-0.00
time (sec)	N/A	0.277	1.126	0.036	0.000	0.808	0.000	0.000	0.000

Problem 5	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	B	F	F	F	F(-1)	F	F
verified	N/A	Yes	Yes	TBD	TBD	TBD	TBD	TBD	TBD
size	545	545	1093	0	0	0	0	0	-1
normalized size	1	1.00	2.01	0.00	0.00	0.00	0.00	0.00	-0.00
time (sec)	N/A	0.351	1.575	0.042	0.000	0.871	0.000	0.000	0.000

Problem 6	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	A	F	F	F	F(-1)	F	F
verified	N/A	Yes	Yes	TBD	TBD	TBD	TBD	TBD	TBD
size	283	283	456	0	0	0	0	0	-1
normalized size	1	1.00	1.61	0.00	0.00	0.00	0.00	0.00	-0.00
time (sec)	N/A	0.385	3.532	0.066	0.000	0.851	0.000	0.000	0.000

Problem 7	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	B	F	F	F	F(-1)	F	F
verified	N/A	Yes	Yes	TBD	TBD	TBD	TBD	TBD	TBD
size	738	738	4162	0	0	0	0	0	-1
normalized size	1	1.00	5.64	0.00	0.00	0.00	0.00	0.00	-0.00
time (sec)	N/A	1.337	6.393	0.089	0.000	0.862	0.000	0.000	0.000

Problem 8	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	B	F	F	F	F(-1)	F	F
verified	N/A	Yes	NO	TBD	TBD	TBD	TBD	TBD	TBD
size	1194	1194	6525	0	0	0	0	0	-1
normalized size	1	1.00	5.46	0.00	0.00	0.00	0.00	0.00	-0.00
time (sec)	N/A	2.053	6.513	0.073	0.000	0.753	0.000	0.000	0.000

Problem 9	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	B	F	F	F	F(-1)	F	F
verified	N/A	Yes	NO	TBD	TBD	TBD	TBD	TBD	TBD
size	1654	1654	8737	0	0	0	0	0	-1
normalized size	1	1.00	5.28	0.00	0.00	0.00	0.00	0.00	-0.00
time (sec)	N/A	2.909	6.623	0.086	0.000	0.588	0.000	0.000	0.000

Problem 10	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	F(-1)	F	F	A	F(-1)	F	F
verified	N/A	Yes	N/A	TBD	TBD	TBD	TBD	TBD	TBD
size	75	75	0	0	0	137	0	0	-1
normalized size	1	1.00	0.00	0.00	0.00	1.83	0.00	0.00	-0.01
time (sec)	N/A	0.531	0.000	0.066	0.000	0.762	0.000	0.000	0.000

Problem 11	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	A	A	A	A	B	B	B
verified	N/A	Yes	Yes	TBD	TBD	TBD	TBD	TBD	TBD
size	20	20	19	33	35	35	63	66	35
normalized size	1	1.00	0.95	1.65	1.75	1.75	3.15	3.30	1.75
time (sec)	N/A	0.024	0.333	0.051	1.219	0.820	50.333	0.841	2.181

Problem 12	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	A	F	F	A	F(-1)	A	B
verified	N/A	Yes	Yes	TBD	TBD	TBD	TBD	TBD	TBD
size	45	45	45	0	0	48	0	39	39
normalized size	1	1.00	1.00	0.00	0.00	1.07	0.00	0.87	0.87
time (sec)	N/A	0.079	0.214	0.095	0.000	0.641	0.000	35.009	2.557

Problem 13	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	A	F	F	A	F(-1)	F	F
verified	N/A	Yes	Yes	TBD	TBD	TBD	TBD	TBD	TBD
size	65	65	64	0	0	69	0	0	-1
normalized size	1	1.00	0.98	0.00	0.00	1.06	0.00	0.00	-0.02
time (sec)	N/A	0.156	0.144	0.089	0.000	0.455	0.000	0.000	0.000

Problem 14	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	F(-1)	F	F	A	F(-1)	B	B
verified	N/A	Yes	N/A	TBD	TBD	TBD	TBD	TBD	TBD
size	75	75	0	0	0	109	0	187	80
normalized size	1	1.00	0.00	0.00	0.00	1.45	0.00	2.49	1.07
time (sec)	N/A	0.108	0.000	0.029	0.000	0.752	0.000	4.721	2.454

Problem 15	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	F(-1)	F	F	A	F(-1)	F	F
verified	N/A	Yes	N/A	TBD	TBD	TBD	TBD	TBD	TBD
size	95	95	0	0	0	132	0	0	-1
normalized size	1	1.00	0.00	0.00	0.00	1.39	0.00	0.00	-0.01
time (sec)	N/A	0.217	0.000	0.025	0.000	0.636	0.000	0.000	0.000

Problem 16	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	A	F	B	B	F(-1)	B	B
verified	N/A	Yes	Yes	TBD	TBD	TBD	TBD	TBD	TBD
size	29	29	24	0	60	65	0	96	50
normalized size	1	1.00	0.83	0.00	2.07	2.24	0.00	3.31	1.72
time (sec)	N/A	0.071	0.434	0.058	1.181	0.533	0.000	1.555	2.245

Problem 17	Optimal	Rubi	Mathematica	Maple	Maxima	Fricas	Sympy	Giac	Mupad
grade	A	A	B	F	F	F	F(-1)	F	F
verified	N/A	Yes	Yes	TBD	TBD	TBD	TBD	TBD	TBD
size	494	494	5439	0	0	0	0	0	-1
normalized size	1	1.00	11.01	0.00	0.00	0.00	0.00	0.00	-0.00
time (sec)	N/A	1.584	6.894	0.031	0.000	0.714	0.000	0.000	0.000

2.3 Detailed conclusion table specific for Rubi results

The following table is specific to Rubi. It gives additional statistics for each integral. the column **steps** is the number of steps used by Rubi to obtain the antiderivative. The **rules**

column is the number of unique rules used. The **integrand size** column is the leaf size of the integrand. Finally the ratio $\frac{\text{number of rules}}{\text{integrand size}}$ is given. The larger this ratio is, the harder the integral was to solve. In this test, problem number [7] had the largest ratio of [.3636]

Table 2.1: Rubi specific breakdown of results for each integral

#	grade	number of steps used	number of unique rules	normalized antiderivative leaf size	integrand leaf size	$\frac{\text{number of rules}}{\text{integrand leaf size}}$
1	A	37	16	1.00	55	0.291
2	A	3	2	1.00	16	0.125
3	A	9	4	1.00	22	0.182
4	A	11	4	1.00	27	0.148
5	A	13	4	1.00	32	0.125
6	A	4	3	1.00	16	0.188
7	A	15	8	1.00	22	0.364
8	A	24	8	1.00	27	0.296
9	A	33	8	1.00	32	0.250
10	A	2	2	1.00	63	0.032
11	A	1	1	1.00	45	0.022
12	A	1	1	1.00	52	0.019
13	A	2	2	1.00	54	0.037
14	A	1	1	1.00	61	0.016
15	A	2	2	1.00	63	0.032
16	A	1	1	1.00	56	0.018
17	A	4	3	1.00	38	0.079

Chapter 3

Listing of integrals

3.1
$$\int \frac{d+ex+fx^2+gx^3+hx^4+jx^5+kx^6+lx^7+mx^8}{a+bx^3+cx^6} dx$$

Optimal. Leaf size=1668

$$\frac{mx^3}{3c} + \frac{lx^2}{2c} + \frac{kx}{c} - \frac{\left(g - \frac{bk}{c} + \frac{kb^2+2c^2d-c(bg+2ak)}{c\sqrt{b^2-4ac}}\right) \tan^{-1}\left(\frac{1 - \frac{2\sqrt[3]{2}\sqrt[3]{cx}}{\sqrt{b-\sqrt{b^2-4ac}}}}{\sqrt{3}}\right) \left(h - \frac{bl}{c} + \frac{lb^2+2c^2e-c(bh+2al)}{c\sqrt{b^2-4ac}}\right) \tan^{-1}\left(\frac{1 - \frac{2\sqrt[3]{2}\sqrt[3]{cx}}{\sqrt{b-\sqrt{b^2-4ac}}}}{\sqrt{3}}\right)}{\sqrt[3]{2}\sqrt{3}\sqrt[3]{c}\left(b-\sqrt{b^2-4ac}\right)^{2/3} - 2^{2/3}\sqrt{3}c^{2/3}\sqrt[3]{b-\sqrt{b^2-4ac}}}$$

[Out] $k*x/c+1/2*1*x^2/c+1/3*m*x^3/c+1/6*(-b*m+c*j)*\ln(c*x^6+b*x^3+a)/c^2+1/6*\ln(2^{1/3}*c^{1/3}*x+(b-(-4*a*c+b^2)^{1/2})^{1/3})*(g-b*k/c+(2*c^2*d+b^2*k-c*(2*a*k+b*g))/c/(-4*a*c+b^2)^{1/2})*2^{2/3}/c^{1/3}/(b-(-4*a*c+b^2)^{1/2})^{2/3}-1/12*\ln(2^{2/3}*c^{2/3}*x^2-2^{1/3}*c^{1/3}*x*(b-(-4*a*c+b^2)^{1/2})^{1/3}+(b-(-4*a*c+b^2)^{1/2})^{2/3})*(g-b*k/c+(2*c^2*d+b^2*k-c*(2*a*k+b*g))/c/(-4*a*c+b^2)^{1/2})*2^{2/3}/c^{1/3}/(b-(-4*a*c+b^2)^{1/2})^{2/3}-1/6*\arctan(1/3*(1-2*2^{1/3}*c^{1/3}*x/(b-(-4*a*c+b^2)^{1/2})^{1/3})*3^{1/2})*(g-b*k/c+(2*c^2*d+b^2*k-c*(2*a*k+b*g))/c/(-4*a*c+b^2)^{1/2})*2^{2/3}/c^{1/3}*3^{1/2}/(b-(-4*a*c+b^2)^{1/2})^{2/3}-1/6*\ln(2^{1/3}*c^{1/3}*x+(b-(-4*a*c+b^2)^{1/2})^{1/3})*\ln(2^{2/3}*c^{2/3}*x^2-2^{1/3}*c^{1/3}*x*(b-(-4*a*c+b^2)^{1/2})^{1/3}+(b-(-4*a*c+b^2)^{1/2})^{2/3})*(h-b*l/c+(2*c^2*e+b^2*l-c*(2*a*l+b*h))/c/(-4*a*c+b^2)^{1/2})*2^{1/3}/c^{2/3}/(b-(-4*a*c+b^2)^{1/2})^{1/3}+1/12*\ln(2^{2/3}*c^{2/3}*x^2-2^{1/3}*c^{1/3}*x*(b-(-4*a*c+b^2)^{1/2})^{1/3}+(b-(-4*a*c+b^2)^{1/2})^{2/3})*(h-b*l/c+(2*c^2*e+b^2*l-c*(2*a*l+b*h))/c/(-4*a*c+b^2)^{1/2})*2^{1/3}/c^{2/3}/(b-(-4*a*c+b^2)^{1/2})^{1/3}-1/6*\arctan(1/3*(1-2*2^{1/3}*c^{1/3}*x/(b-(-4*a*c+b^2)^{1/2})^{1/3})*3^{1/2})*(h-b*l/c+(2*c^2*e+b^2*l-c*(2*a*l+b*h))/c/(-4*a*c+b^2)^{1/2})*2^{1/3}/c^{2/3}/(b-(-4*a*c+b^2)^{1/2})^{1/3}-1/3*(-2*a*c*m+b^2*m-b*c*j+2*c^2*f)*\operatorname{arctanh}((2*c*x^3+b)/(-4*a*c+b^2)^{1/2})/c^2/(-4$

$$\begin{aligned}
& *a*c+b^2)^{(1/2)}+1/6*\ln(2^{(1/3)}*c^{(1/3)}*x+(b+(-4*a*c+b^2)^{(1/2)})^{(1/3)})*(g-b \\
& *k/c+(2*a*c*k-b^2*k+b*c*g-2*c^2*d)/c/(-4*a*c+b^2)^{(1/2)}*2^{(2/3)}/c^{(1/3)}/(b \\
& +(-4*a*c+b^2)^{(1/2)})^{(2/3)}-1/12*\ln(2^{(2/3)}*c^{(2/3)}*x^2-2^{(1/3)}*c^{(1/3)}*x*(b \\
& +(-4*a*c+b^2)^{(1/2)})^{(1/3)}+(b+(-4*a*c+b^2)^{(1/2)})^{(2/3)})*(g-b*k/c+(2*a*c*k- \\
& b^2*k+b*c*g-2*c^2*d)/c/(-4*a*c+b^2)^{(1/2)}*2^{(2/3)}/c^{(1/3)}/(b+(-4*a*c+b^2)^{(1/2)})^{(2/3)}-1/6*\arctan(1/3*(1-2*2^{(1/3)}*c^{(1/3)}*x/(b+(-4*a*c+b^2)^{(1/2)})^{(1/3)}))*3^{(1/2)}*(g-b*k/c+(2*a*c*k-b^2*k+b*c*g-2*c^2*d)/c/(-4*a*c+b^2)^{(1/2)})*2^{(2/3)}/c^{(1/3)}*3^{(1/2)}/(b+(-4*a*c+b^2)^{(1/2)})^{(2/3)}-1/6*\ln(2^{(1/3)}*c^{(1/3)}*x+(b+(-4*a*c+b^2)^{(1/2)})^{(1/3)})*(h-b*l/c+(2*a*c*l-b^2*l+b*c*h-2*c^2*e)/c/(-4*a*c+b^2)^{(1/2)}*2^{(1/3)}/c^{(2/3)}/(b+(-4*a*c+b^2)^{(1/2)})^{(1/3)}+1/12*\ln(2^{(2/3)}*c^{(2/3)}*x^2-2^{(1/3)}*c^{(1/3)}*x*(b+(-4*a*c+b^2)^{(1/2)})^{(1/3)}+(b+(-4*a*c+b^2)^{(1/2)})^{(2/3)}*(h-b*l/c+(2*a*c*l-b^2*l+b*c*h-2*c^2*e)/c/(-4*a*c+b^2)^{(1/2)})*2^{(1/3)}/c^{(2/3)}/(b+(-4*a*c+b^2)^{(1/2)})^{(1/3)}-1/6*\arctan(1/3*(1-2*2^{(1/3)}*c^{(1/3)}*x/(b+(-4*a*c+b^2)^{(1/2)})^{(1/3)}))*3^{(1/2)}*(h-b*l/c+(2*a*c*l-b^2*l+b*c*h-2*c^2*e)/c/(-4*a*c+b^2)^{(1/2)})*2^{(1/3)}/c^{(2/3)}*3^{(1/2)}/(b+(-4*a*c+b^2)^{(1/2)})^{(1/3)}
\end{aligned}$$

Rubi [A] time = 4.01, antiderivative size = 1668, normalized size of antiderivative = 1.00, number of steps used = 37, number of rules used = 16, integrand size = 55, $\frac{\text{number of rules}}{\text{integrand size}} = 0.291$, Rules used = {1790, 1789, 1422, 200, 31, 634, 617, 204, 628, 1758, 1510, 292, 1745, 1657, 618, 206}

result too large to display

Antiderivative was successfully verified.

[In] Int[(d + e*x + f*x^2 + g*x^3 + h*x^4 + j*x^5 + k*x^6 + l*x^7 + m*x^8)/(a + b*x^3 + c*x^6), x]

[Out] (k*x)/c + (1*x^2)/(2*c) + (m*x^3)/(3*c) - ((g - (b*k)/c + (2*c^2*d + b^2*k - c*(b*g + 2*a*k))/(c*Sqrt[b^2 - 4*a*c]))*ArcTan[(1 - (2*2^(1/3)*c^(1/3)*x)/(b - Sqrt[b^2 - 4*a*c])^(1/3))/Sqrt[3]]/(2^(1/3)*Sqrt[3]*c^(1/3)*(b - Sqrt[b^2 - 4*a*c])^(2/3)) - ((h - (b*l)/c + (2*c^2*e + b^2*l - c*(b*h + 2*a*l))/(c*Sqrt[b^2 - 4*a*c]))*ArcTan[(1 - (2*2^(1/3)*c^(1/3)*x)/(b - Sqrt[b^2 - 4*a*c])^(1/3))/Sqrt[3]]/(2^(2/3)*Sqrt[3]*c^(2/3)*(b - Sqrt[b^2 - 4*a*c])^(1/3)) - ((g - (b*k)/c - (2*c^2*d - b*c*g + b^2*k - 2*a*c*k)/(c*Sqrt[b^2 - 4*a*c]))*ArcTan[(1 - (2*2^(1/3)*c^(1/3)*x)/(b + Sqrt[b^2 - 4*a*c])^(1/3))/Sqrt[3]]/(2^(1/3)*Sqrt[3]*c^(1/3)*(b + Sqrt[b^2 - 4*a*c])^(2/3)) - ((h - (b*l)/c - (2*c^2*e - b*c*h + b^2*l - 2*a*c*l)/(c*Sqrt[b^2 - 4*a*c]))*ArcTan[(1 - (2*2^(1/3)*c^(1/3)*x)/(b + Sqrt[b^2 - 4*a*c])^(1/3))/Sqrt[3]]/(2^(2/3)*Sqrt[3]*c^(2/3)*(b + Sqrt[b^2 - 4*a*c])^(1/3)) - ((2*c^2*f - b*c*j + b^2*m - 2*a*c*m)*ArcTanh[(b + 2*c*x^3)/Sqrt[b^2 - 4*a*c]]/(3*c^2*Sqrt[b^2 - 4*a*c])) + ((g - (b*k)/c + (2*c^2*d + b^2*k - c*(b*g + 2*a*k))/(c*Sqrt[b^2 - 4*a*c]))*Log[(b - Sqrt[b^2 - 4*a*c])^(1/3) + 2^(1/3)*c^(1/3)*x]/(3*2^(1/3)*c^(1/3)*(b - Sqrt[b^2 - 4*a*c])^(2/3)) - ((h - (b*l)/c + (2*c^2*e + b^2*l - c*(b*h + 2*a*l))/(c*Sqrt[b^2 - 4*a*c]))*Log[(b - Sqrt[b^2 - 4*a*c])^(1/3) + 2^(1/3)*c^(1/3)*x]/(3*2^(2/3)*c^(2/3)*(b - Sqrt[b^2 - 4*a*c])^(1/3)) + ((g

$$\begin{aligned}
& - (b*k)/c - (2*c^2*d - b*c*g + b^2*k - 2*a*c*k)/(c*\text{Sqrt}[b^2 - 4*a*c]))*\text{Log} \\
& [(b + \text{Sqrt}[b^2 - 4*a*c])^{(1/3)} + 2^{(1/3)}*c^{(1/3)*x}]/(3*2^{(1/3)}*c^{(1/3)}*(b \\
& + \text{Sqrt}[b^2 - 4*a*c])^{(2/3)}) - ((h - (b*1)/c - (2*c^2*e - b*c*h + b^2*1 - 2* \\
& a*c*1)/(c*\text{Sqrt}[b^2 - 4*a*c]))*\text{Log}[(b + \text{Sqrt}[b^2 - 4*a*c])^{(1/3)} + 2^{(1/3)}*c \\
& ^{(1/3)*x}]/(3*2^{(2/3)}*c^{(2/3)}*(b + \text{Sqrt}[b^2 - 4*a*c])^{(1/3)}) - ((g - (b*k)/ \\
& c + (2*c^2*d + b^2*k - c*(b*g + 2*a*k))/(c*\text{Sqrt}[b^2 - 4*a*c]))*\text{Log}[(b - \text{Sqr} \\
& t[b^2 - 4*a*c])^{(2/3)} - 2^{(1/3)}*c^{(1/3)}*(b - \text{Sqrt}[b^2 - 4*a*c])^{(1/3)*x} + 2 \\
& ^{(2/3)}*c^{(2/3)*x^2}]/(6*2^{(1/3)}*c^{(1/3)}*(b - \text{Sqrt}[b^2 - 4*a*c])^{(2/3)}) + ((\\
& h - (b*1)/c + (2*c^2*e + b^2*1 - c*(b*h + 2*a*1))/(c*\text{Sqrt}[b^2 - 4*a*c]))*\text{Lo} \\
& g[(b - \text{Sqrt}[b^2 - 4*a*c])^{(2/3)} - 2^{(1/3)}*c^{(1/3)}*(b - \text{Sqrt}[b^2 - 4*a*c])^{(\\
& 1/3)*x} + 2^{(2/3)}*c^{(2/3)*x^2}]/(6*2^{(2/3)}*c^{(2/3)}*(b - \text{Sqrt}[b^2 - 4*a*c])^{(\\
& 1/3)}) - ((g - (b*k)/c - (2*c^2*d - b*c*g + b^2*k - 2*a*c*k)/(c*\text{Sqrt}[b^2 - 4 \\
& *a*c]))*\text{Log}[(b + \text{Sqrt}[b^2 - 4*a*c])^{(2/3)} - 2^{(1/3)}*c^{(1/3)}*(b + \text{Sqrt}[b^2 - \\
& 4*a*c])^{(1/3)*x} + 2^{(2/3)}*c^{(2/3)*x^2}]/(6*2^{(1/3)}*c^{(1/3)}*(b + \text{Sqrt}[b^2 - \\
& 4*a*c])^{(2/3)}) + ((h - (b*1)/c - (2*c^2*e - b*c*h + b^2*1 - 2*a*c*1)/(c*\text{Sq} \\
& rt[b^2 - 4*a*c]))*\text{Log}[(b + \text{Sqrt}[b^2 - 4*a*c])^{(2/3)} - 2^{(1/3)}*c^{(1/3)}*(b + \\
& \text{Sqrt}[b^2 - 4*a*c])^{(1/3)*x} + 2^{(2/3)}*c^{(2/3)*x^2}]/(6*2^{(2/3)}*c^{(2/3)}*(b + \\
& \text{Sqrt}[b^2 - 4*a*c])^{(1/3)}) + ((c*j - b*m)*\text{Log}[a + b*x^3 + c*x^6]/(6*c^2)
\end{aligned}$$

Rule 31

$\text{Int}[\frac{(a_1 + (b_1)x)^{-1}}{x}, x_Symbol] \rightarrow \text{Simp}[\text{Log}[\text{RemoveContent}[a + b*x, x]]/b, x] \text{ ; FreeQ}\{a, b\}, x]$

Rule 200

$\text{Int}[\frac{(a_1 + (b_1)x^3)^{-1}}{x}, x_Symbol] \rightarrow \text{Dist}[1/(3*\text{Rt}[a, 3]^2), \text{Int}[1/(\text{Rt}[a, 3] + \text{Rt}[b, 3]*x), x], x] + \text{Dist}[1/(3*\text{Rt}[a, 3]^2), \text{Int}[(2*\text{Rt}[a, 3] - \text{Rt}[b, 3]*x)/(\text{Rt}[a, 3]^2 - \text{Rt}[a, 3]*\text{Rt}[b, 3]*x + \text{Rt}[b, 3]^2*x^2), x], x] \text{ ; FreeQ}\{a, b\}, x]$

Rule 204

$\text{Int}[\frac{(a_1 + (b_1)x^2)^{-1}}{x}, x_Symbol] \rightarrow -\text{Simp}[\text{ArcTan}[(\text{Rt}[-b, 2]*x)/\text{Rt}[-a, 2]]/(\text{Rt}[-a, 2]*\text{Rt}[-b, 2]), x] \text{ ; FreeQ}\{a, b\}, x \ \&\& \ \text{PosQ}[a/b] \ \&\& \ (\text{LtQ}[a, 0] \ || \ \text{LtQ}[b, 0])]$

Rule 206

$\text{Int}[\frac{(a_1 + (b_1)x^2)^{-1}}{x}, x_Symbol] \rightarrow \text{Simp}[(1*\text{ArcTanh}[(\text{Rt}[-b, 2]*x)/\text{Rt}[a, 2]])/(\text{Rt}[a, 2]*\text{Rt}[-b, 2]), x] \text{ ; FreeQ}\{a, b\}, x \ \&\& \ \text{NegQ}[a/b] \ \&\& \ (\text{GtQ}[a, 0] \ || \ \text{LtQ}[b, 0])]$

Rule 292

$\text{Int}[\frac{x}{(a_1 + (b_1)x^3)}, x_Symbol] \rightarrow -\text{Dist}[(3*\text{Rt}[a, 3]*\text{Rt}[b, 3])^{-1}(-$

```
1), Int[1/(Rt[a, 3] + Rt[b, 3]*x), x], x] + Dist[1/(3*Rt[a, 3]*Rt[b, 3]), I
nt[(Rt[a, 3] + Rt[b, 3]*x)/(Rt[a, 3]^2 - Rt[a, 3]*Rt[b, 3]*x + Rt[b, 3]^2*x
^2), x], x] /; FreeQ[{a, b}, x]
```

Rule 617

```
Int[((a_) + (b_)*(x_) + (c_)*(x_)^2)^(-1), x_Symbol] := With[{q = 1 - 4*S
implify[(a*c)/b^2]}, Dist[-2/b, Subst[Int[1/(q - x^2), x], x, 1 + (2*c*x)/b
], x] /; RationalQ[q] && (EqQ[q^2, 1] || !RationalQ[b^2 - 4*a*c])] /; Free
Q[{a, b, c}, x] && NeQ[b^2 - 4*a*c, 0]
```

Rule 618

```
Int[((a_) + (b_)*(x_) + (c_)*(x_)^2)^(-1), x_Symbol] := Dist[-2, Subst[I
nt[1/Simp[b^2 - 4*a*c - x^2, x], x], x, b + 2*c*x], x] /; FreeQ[{a, b, c},
x] && NeQ[b^2 - 4*a*c, 0]
```

Rule 628

```
Int[((d_) + (e_)*(x_))/((a_) + (b_)*(x_) + (c_)*(x_)^2), x_Symbol] := S
imp[(d*Log[RemoveContent[a + b*x + c*x^2, x]])/b, x] /; FreeQ[{a, b, c, d,
e}, x] && EqQ[2*c*d - b*e, 0]
```

Rule 634

```
Int[((d_) + (e_)*(x_))/((a_) + (b_)*(x_) + (c_)*(x_)^2), x_Symbol] := D
ist[(2*c*d - b*e)/(2*c), Int[1/(a + b*x + c*x^2), x], x] + Dist[e/(2*c), In
t[(b + 2*c*x)/(a + b*x + c*x^2), x], x] /; FreeQ[{a, b, c, d, e}, x] && NeQ
[2*c*d - b*e, 0] && NeQ[b^2 - 4*a*c, 0] && !NiceSqrtQ[b^2 - 4*a*c]
```

Rule 1422

```
Int[((d_) + (e_)*(x_)^(n_))/((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_)), x
_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Dist[e/2 + (2*c*d - b*e)/(2*q),
Int[1/(b/2 - q/2 + c*x^n), x], x] + Dist[e/2 - (2*c*d - b*e)/(2*q), Int[1/(
b/2 + q/2 + c*x^n), x], x]] /; FreeQ[{a, b, c, d, e, n}, x] && EqQ[n2, 2*n]
&& NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && (PosQ[b^2 - 4*a
*c] || !IGtQ[n/2, 0])
```

Rule 1510

```
Int[((f_)*(x_)^(m_))*((d_) + (e_)*(x_)^(n_))/((a_) + (b_)*(x_)^(n_) +
(c_)*(x_)^(n2_)), x_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Dist[e/2 +
(2*c*d - b*e)/(2*q), Int[(f*x)^m/(b/2 - q/2 + c*x^n), x], x] + Dist[e/2 - (
2*c*d - b*e)/(2*q), Int[(f*x)^m/(b/2 + q/2 + c*x^n), x], x]] /; FreeQ[{a, b
```

, c, d, e, f, m}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0]

Rule 1657

Int[(Pq_)*((a_) + (b_)*(x_) + (c_)*(x_)^2)^(p_), x_Symbol] := Int[Expand
Integrand[Pq*(a + b*x + c*x^2)^p, x], x] /; FreeQ[{a, b, c}, x] && PolyQ[Pq,
x] && IGtQ[p, -2]

Rule 1745

Int[(Pq_)*(x_)^(m_)*((a_) + (c_)*(x_)^(n2_) + (b_)*(x_)^(n_))^(p_), x_
Symbol] := Dist[1/n, Subst[Int[SubstFor[x^n, Pq, x]*(a + b*x + c*x^2)^p, x]
, x, x^n], x] /; FreeQ[{a, b, c, m, n, p}, x] && EqQ[n2, 2*n] && PolyQ[Pq,
x^n] && EqQ[Simplify[m - n + 1], 0]

Rule 1758

Int[(Pq_)*((d_)*(x_))^(m_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(
p_), x_Symbol] := With[{q = Expon[Pq, x]}, With[{Pqq = Coeff[Pq, x, q]}, In
t[(d*x)^m*ExpandToSum[Pq - Pqq*x^q - (Pqq*(a*(m + q - 2*n + 1)*x^(q - 2*n)
+ b*(m + q + n*(p - 1) + 1)*x^(q - n)))/(c*(m + q + 2*n*p + 1)), x]*(a + b*
x^n + c*x^(2*n))^p, x] + Simp[(Pqq*(d*x)^(m + q - 2*n + 1)*(a + b*x^n + c*x
^(2*n))^(p + 1))/(c*d^(q - 2*n + 1)*(m + q + 2*n*p + 1)), x]] /; GeQ[q, 2*n
&& NeQ[m + q + 2*n*p + 1, 0] && (IntegerQ[2*p] || (EqQ[n, 1] && IntegerQ[
4*p]) || IntegerQ[p + (q + 1)/(2*n)])] /; FreeQ[{a, b, c, d, m, p}, x] && E
qQ[n2, 2*n] && PolyQ[Pq, x^n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0]

Rule 1789

Int[(Pq_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] := W
ith[{q = Expon[Pq, x]}, With[{Pqq = Coeff[Pq, x, q]}, Int[ExpandToSum[Pq -
Pqq*x^q - (Pqq*(a*(q - 2*n + 1)*x^(q - 2*n) + b*(q + n*(p - 1) + 1)*x^(q -
n)))/(c*(q + 2*n*p + 1)), x]*(a + b*x^n + c*x^(2*n))^p, x] + Simp[(Pqq*x^(q
- 2*n + 1)*(a + b*x^n + c*x^(2*n))^(p + 1))/(c*(q + 2*n*p + 1)), x]] /; Ge
Q[q, 2*n] && NeQ[q + 2*n*p + 1, 0] && (IntegerQ[2*p] || (EqQ[n, 1] && Integ
erQ[4*p]) || IntegerQ[p + (q + 1)/(2*n)])] /; FreeQ[{a, b, c, p}, x] && EqQ
[n2, 2*n] && PolyQ[Pq, x^n] && NeQ[b^2 - 4*a*c, 0] && IGtQ[n, 0]

Rule 1790

Int[(Pq_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] := Mo
dule[{q = Expon[Pq, x], j, k}, Int[Sum[x^j*Sum[Coeff[Pq, x, j + k*n]*x^(k*n
)], {k, 0, (q - j)/n + 1}*(a + b*x^n + c*x^(2*n))^p, {j, 0, n - 1}], x]] /;
FreeQ[{a, b, c, p}, x] && EqQ[n2, 2*n] && PolyQ[Pq, x] && NeQ[b^2 - 4*a*c,

0] && IGtQ[n, 0] && !PolyQ[Pq, x^n]

Rubi steps

$$\begin{aligned}
 \int \frac{d + ex + fx^2 + gx^3 + hx^4 + jx^5 + kx^6 + lx^7 + mx^8}{a + bx^3 + cx^6} dx &= \int \left(\frac{d + gx^3 + kx^6}{a + bx^3 + cx^6} + \frac{x(e + hx^3 + lx^6)}{a + bx^3 + cx^6} + \frac{x^2(f + jx^3 + mx^6)}{a + bx^3 + cx^6} \right) dx \\
 &= \int \frac{d + gx^3 + kx^6}{a + bx^3 + cx^6} dx + \int \frac{x(e + hx^3 + lx^6)}{a + bx^3 + cx^6} dx + \int \frac{x^2(f + jx^3 + mx^6)}{a + bx^3 + cx^6} dx \\
 &= \frac{kx}{c} + \frac{lx^2}{2c} + \frac{1}{3} \text{Subst} \left(\int \frac{f + jx + mx^2}{a + bx + cx^2} dx, x, x^3 \right) + \int \frac{x^2(f + jx^3 + mx^6)}{a + bx^3 + cx^6} dx \\
 &= \frac{kx}{c} + \frac{lx^2}{2c} + \frac{1}{3} \text{Subst} \left(\int \left(\frac{m}{c} + \frac{cf - am + (cj - bm)x}{c(a + bx + cx^2)} \right) dx, x, x^3 \right) \\
 &= \frac{kx}{c} + \frac{lx^2}{2c} + \frac{mx^3}{3c} + \frac{\text{Subst} \left(\int \frac{cf - am + (cj - bm)x}{a + bx + cx^2} dx, x, x^3 \right)}{3c} \\
 &= \frac{kx}{c} + \frac{lx^2}{2c} + \frac{mx^3}{3c} + \frac{\left(g - \frac{bk}{c} + \frac{2c^2d + b^2k - c(bg + 2ak)}{c\sqrt{b^2 - 4ac}} \right) \log \left(\sqrt[3]{\frac{a + bx + cx^2}{a + bx^3 + cx^6}} \right)}{3\sqrt[3]{2} \sqrt[3]{c} (b - \sqrt{b^2 - 4ac})} \\
 &= \frac{kx}{c} + \frac{lx^2}{2c} + \frac{mx^3}{3c} + \frac{\left(g - \frac{bk}{c} + \frac{2c^2d + b^2k - c(bg + 2ak)}{c\sqrt{b^2 - 4ac}} \right) \log \left(\sqrt[3]{\frac{a + bx + cx^2}{a + bx^3 + cx^6}} \right)}{3\sqrt[3]{2} \sqrt[3]{c} (b - \sqrt{b^2 - 4ac})} \\
 &= \frac{kx}{c} + \frac{lx^2}{2c} + \frac{mx^3}{3c} - \frac{\left(g - \frac{bk}{c} + \frac{2c^2d + b^2k - c(bg + 2ak)}{c\sqrt{b^2 - 4ac}} \right) \tan^{-1} \left(\sqrt[3]{\frac{a + bx + cx^2}{a + bx^3 + cx^6}} \right)}{\sqrt[3]{2} \sqrt[3]{c} (b - \sqrt{b^2 - 4ac})}
 \end{aligned}$$

Mathematica [C] time = 1.68, size = 223, normalized size = 0.13

$$-2\text{RootSum}\left[\#1^6c + \#1^3b + a\&, \frac{\#1^5bm \log(x-\#1)+\#1^5(-c)j \log(x-\#1)+\#1^4bl \log(x-\#1)-\#1^4ch \log(x-\#1)+\#1^3bk \log(x-\#1)-\#1^3cg \log(x-\#1)}{2\#1^5c-6c}\right]$$

Antiderivative was successfully verified.

[In] Integrate[(d + e*x + f*x^2 + g*x^3 + h*x^4 + j*x^5 + k*x^6 + l*x^7 + m*x^8)/(a + b*x^3 + c*x^6),x]

[Out] (6*k*x + 3*l*x^2 + 2*m*x^3 - 2*RootSum[a + b*#1^3 + c*#1^6 & , (- (c*d*Log[x - #1]) + a*k*Log[x - #1] - c*e*Log[x - #1]*#1 + a*l*Log[x - #1]*#1 - c*f*Log[x - #1]*#1^2 + a*m*Log[x - #1]*#1^2 - c*g*Log[x - #1]*#1^3 + b*k*Log[x - #1]*#1^3 - c*h*Log[x - #1]*#1^4 + b*l*Log[x - #1]*#1^4 - c*j*Log[x - #1]*#1^5 + b*m*Log[x - #1]*#1^5)/(b*#1^2 + 2*c*#1^5) &])/(6*c)

fricas [F(-1)] time = 0.00, size = 0, normalized size = 0.00

Timed out

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((m*x^8+l*x^7+k*x^6+j*x^5+h*x^4+g*x^3+f*x^2+e*x+d)/(c*x^6+b*x^3+a),x, algorithm="fricas")

[Out] Timed out

giac [F(-1)] time = 0.00, size = 0, normalized size = 0.00

Timed out

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((m*x^8+l*x^7+k*x^6+j*x^5+h*x^4+g*x^3+f*x^2+e*x+d)/(c*x^6+b*x^3+a),x, algorithm="giac")

[Out] Timed out

maple [C] time = 0.02, size = 134, normalized size = 0.08

$$\frac{m x^3}{3c} + \frac{l x^2}{2c} + \frac{k x}{c} + \frac{\left((-b m + c j) \text{RootOf}\left(-Z^6 c + -Z^3 b + a\right)^5 + (-b l + c h) \text{RootOf}\left(-Z^6 c + -Z^3 b + a\right)^4 + (-b k + c g)\right)}{6c}$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((m*x^8+l*x^7+k*x^6+j*x^5+h*x^4+g*x^3+f*x^2+e*x+d)/(c*x^6+b*x^3+a),x)

[Out] 1/3*m*x^3/c+1/2*l*x^2/c+k*x/c+1/3/c*sum(((b*m+c*j)*_R^5+(-b*l+c*h)*_R^4+(-b*k+c*g)*_R^3+(-a*m+c*f)*_R^2+(-a*l+c*e)*_R-a*k+c*d)/(2*_R^5*c+_R^2*b)*ln(-_R+x),_R=RootOf(_Z^6*c+_Z^3*b+a))

maxima [F] time = 0.00, size = 0, normalized size = 0.00

$$\frac{2mx^3 + 3lx^2 + 6kx}{6c} - \int \frac{(cj-bm)x^5 + (ch-bl)x^4 + (cg-bk)x^3 + (cf-am)x^2 + cd-ak + (ce-al)x}{cx^6 + bx^3 + a} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((m*x^8+l*x^7+k*x^6+j*x^5+h*x^4+g*x^3+f*x^2+e*x+d)/(c*x^6+b*x^3+a),x, algorithm="maxima")

[Out] 1/6*(2*m*x^3 + 3*l*x^2 + 6*k*x)/c - integrate(-((c*j - b*m)*x^5 + (c*h - b*l)*x^4 + (c*g - b*k)*x^3 + (c*f - a*m)*x^2 + c*d - a*k + (c*e - a*l)*x)/(c*x^6 + b*x^3 + a), x)/c

mupad [B] time = 40.55, size = 359169, normalized size = 215.33

result too large to display

Verification of antiderivative is not currently implemented for this CAS.

[In] int((d + e*x + f*x^2 + g*x^3 + h*x^4 + j*x^5 + k*x^6 + l*x^7 + m*x^8)/(a + b*x^3 + c*x^6),x)

[Out] symsum(log((x*(c^7*e^5 + c^7*d^4*j - a^5*c^2*l^5 - b^7*e^2*m^3 - a^2*b*c^4*h^5 - a*c^6*e^2*g^3 - b*c^6*e^2*f^3 + 2*a*c^6*e^3*h^2 + b*c^6*d^3*h^2 + a^2*c^5*e*h^4 + a^4*b^2*c*l^5 + 3*c^7*d^2*e*f^2 + 3*c^7*d^2*e^2*g + a^2*b^5*d*m^4 - a^2*c^5*g^4*j + a^3*c^4*g*j^4 + 5*a^4*c^3*e*l^4 + 3*b^2*c^5*e^4*l + b^6*c*e^2*l^3 - a^3*b^4*g*m^4 - a^3*c^4*h^4*l - a^5*c^2*g*m^4 + a^4*c^3*j*k^4 + a^4*b^3*k*m^4 + b^2*c^5*e^2*g^3 + 3*b^2*c^5*e^3*h^2 - b^3*c^4*e^2*h^3 + a^2*c^5*e^2*j^3 + a^2*c^5*g^3*h^2 + b^4*c^3*e^2*j^3 + 10*a^2*c^5*e^3*l^2 - 10*a^3*c^4*e^2*l^3 + b^3*c^4*d^3*l^2 - b^5*c^2*e^2*k^3 - a^3*c^4*h^2*j^3 + 3*b^4*c^3*e^3*l^2 - a^3*c^4*g^3*l^2 - a^2*b^5*h^2*m^3 - 2*a^4*c^3*h^2*l^3 + a^4*c^3*j^3*l^2 - a^4*b^3*l^2*m^3 + b*c^6*d*f^4 - a*c^6*f^4*g - 3*b*c^6*e^4*h - 4*c^7*d*e^3*f - 2*c^7*d^3*e*h - 2*c^7*d^3*f*g - 5*a*c^6*e^4*l - b*c^6*d^4*m + b^7*d*f*m^3 + a*b*c^5*f*g^4 - 2*a*c^6*d*f*g^3 + 2*a*c^6*e*f^3*h + 3*b*c^6*e^3*f*g + 2*a*c^6*d*f^3*j + 3*b*c^6*d*e^3*j + 4*a*c^6*d*e^3*m + 4*a*c^6*e^3*f*k + 4*a*c^6*e^3*g*j + 2*b*c^6*d^3*e*l + 2*b*c^6*d^3*f*k - b*c^6*d^3*g*j - b^6*c*d*f*l^3 + 2*a*c^6*d^3*g*m + 2*a*c^6*d^3*h*l + 2*a*b^6*e*h*m^3 - a*b^6*f*g*m^3 - 4*a*c^6*d^3*j*k - a*b^6*d*j*m^3 - 2*a^5*b*c*k*m^4 + 1*2*a^2*b^2*c^3*e^2*l^3 + a^2*b^2*c^3*h^2*j^3 - 10*a^2*b^3*c^2*e^2*m^3 - a^2*

$$\begin{aligned}
& b^3c^2h^2k^3 - 3a^2b^3c^2h^3l^2 + 3a^3b^2c^2h^2l^3 - 4a*b*c^5 \\
& *e^2h^3 + 2a*b^2c^4e*h^4 + a*b^3c^3d*j^4 - 2a^2b*c^4d*j^4 - 3b*c^6 \\
& *d^2e^2g^2 - 2a*b*c^5d^3l^2 + 3a*c^6e*f^2g^2 + 3b*c^6d^2f*g^2 - b \\
& ^2c^5d*f*g^3 + 3a*c^6d^2e*j^2 - 3a*c^6d^2g*h^2 - 3b*c^6d^2f^2h \\
& + 2a^2b^4c*e*l^4 - 2a^3b*c^3f*k^4 - 4a^3b^3c*d*m^4 + 3a^4b*c^2d \\
& *m^4 + b^3c^4d*f*h^3 + 6a*b^5c*e^2m^3 + 2a^2c^5d*f*j^3 - 3a*c^6e^ \\
& 2f^2*j - 3b*c^6d^2e^2k - 2a^2c^5f*g*h^3 - 3b^2c^5d*f^3*j - b^4c \\
& ^3d*f*j^3 - 3a*c^6d^2f^2l - 2a^2c^5d*h^3*j - 2a^3b^3c*h*l^4 + 4a \\
& ^3c^4d*f*l^3 + a^4b*c^2h*l^4 + 3a^4b^2c*g*m^4 + b^5c^2d*f*k^3 + a \\
& ^3b*c^3j^4*k - 3b^2c^5d*e^3m - 3b^2c^5e^3f*k - 3b^2c^5e^3g*j \\
& + 2a^2c^5d*g^3m + 2a^2c^5e*g^3l + 2a^2c^5f*g^3k + 2a^3c^4e*h \\
& *k^3 + 2a^3c^4f*g*k^3 + 3b^3c^4d*f^3m - 4a^3c^4d*j*k^3 + b^2c^5d \\
& ^3g*m - 2b^2c^5d^3h*l + 4a^2c^5f^3g*m - 2a^2c^5f^3h*l + a^4b \\
& *c^2k^4m - 2a^4c^3e*h*m^3 + 4a^4c^3f*g*m^3 + b^2c^5d^3j*k + 3b^ \\
& 3c^4e^3g*m - 6b^3c^4e^3h*l - 2a^2c^5f^3j*k - 2a^3c^4d*j^3m - \\
& 2a^3c^4e*j^3l - 2a^3c^4f*j^3k - 2a^4c^3d*j*m^3 + 2a^5b*c^1^2m \\
& ^3 + 3b^3c^4e^3j*k + 2a^3c^4g*h^3m - 2a^2b^5e*l*m^3 + a^2b^5f \\
& *k*m^3 + a^2b^5g*j*m^3 - 4a^2c^5e^3k*m + 2a^3c^4h^3j*k - 4a^4c^ \\
& 3d*l^3m - 4a^4c^3f*k*l^3 - 4a^4c^3g*j*l^3 - b^3c^4d^3k*m + 3b^6 \\
& *c^2e^2j*m^2 - 3b^4c^3e^3k*m - 2a^3c^4g^3k*m - 2a^4c^3g*k^3m - \\
& 2a^4c^3h*k^3l + 2a^3b^4h*l^3m - a^3b^4j*k*m^3 + 2a^5c^2h*l^3m \\
& + 2a^4c^3j^3k*m + 2a^5c^2j*k*m^3 + 4a^5c^2k*l^3m - 3a*b^2c^4e \\
& ^2j^3 + 4a*b^3c^3e^2k^3 - 3a^2b*c^4e^2k^3 - 10a*b^2c^4e^3l^2 \\
& - 5a*b^4c^2e^2l^3 - a^2b^2c^3g*j^4 + a^2b^3c^2f*k^4 - 6a^3b^2c^ \\
& ^2e^1^4 + a^2b*c^4f^3l^2 + 4a^3b*c^3e^2m^3 + 2a^3b*c^3h^2k^3 - \\
& 3b^3c^4d*e^2k^2 + 3b^3c^4d*f^2j^2 + 3a^2b^2c^3h^4l + a^2b^4c \\
& *h^2l^3 + 3a^2c^5e*f^2k^2 + 3a^2c^5e*g^2j^2 + 3a^2c^5d^2e*m^2 \\
& + 3b^2c^5e^2f^2j + 3b^3c^4d^2f*k^2 - 3b^3c^4e^2f*j^2 + 3a^2c^ \\
& ^5d^2g^1^2 + 3a^2c^5e^2g*k^2 - a^3b^2c^2j*k^4 + 4a^3b^3c*h^2m^ \\
& 3 - 3a^4b*c^2h^2m^3 + 3b^2c^5d^2f^2l + 3a^2c^5f^2h^2j - 3b^3 \\
& *c^4e^2g^2k + 3b^4c^3e^2g*k^2 + 3b^5c^2d*f^2m^2 + 6a^2c^5d^2 \\
& *j*k^2 - 6a^2c^5e^2h^2l - 3a^2c^5f^2g^2l + 3a^3c^4e*g^2m^2 + 6 \\
& *a^3c^4e*h^2l^2 - a^4b*c^2k^3l^2 - 3b^3c^4e^2f^2m - 3b^5c^2e^ \\
& 2f*m^2 - 3a^2c^5d^2j^2l + 3a^3c^4e*j^2k^2 - 3a^3c^4g*h^2k^2 - \\
& 6a^3c^4f^2g*m^2 + 3b^4c^3e^2h^2l - 3b^5c^2e^2h^1^2 - 3a^3c^ \\
& 4e^2j*m^2 - 3a^3c^4f^2j^1^2 - 3a^3c^4d^2l^1m^2 - 3a^3c^4f^2k^ \\
& 2l - 3a^3c^4g^2j^2l + 3a^4c^3e*k^2m^2 - 3b^5c^2e^2j^2m + 3a^ \\
& 4c^3g*k^2l^2 + 3a^4c^3h^2j*m^2 - 3a^4c^3g^2l^1m^2 - 3a^4c^3j^2 \\
& *k^2l - 3a^5c^2j^1^2m^2 - 3a^5c^2k^2l^1m^2 - 6a^2b^2c^3d*f^1^3 \\
& - 3a*b^2c^4d^2g^1^2 - 9a*b^2c^4e^2g*k^2 - 3a*b^2c^4f^2g*j^2 - 1 \\
& 2a*b^3c^3d*f^2m^2 + 12a^2b*c^4d*f^2m^2 + 3a^2b*c^4d*g^2l^2 - 3a \\
& ^2b*c^4d*h^2k^2 + 13a^2b^3c^2d*f^3m + 3a*b^3c^3f*g^2k^2 + 12a \\
& *b^3c^3e^2f^3m^2 - 3a^2b*c^4f*g^2k^2 - 3a^2b*c^4f*h^2j^2 - 9a^2b \\
& *c^4e^2f^3m^2 - 6a^2b^2c^3e*h*k^3 - 3a*b^2c^4d^2j*k^2 + 3a*b^2c^ \\
& ^4e^2h^2l + 3a*b^2c^4f^2g^2l + 6a*b^3c^3e^2h^1^2 + 6a*b^4c^2*
\end{aligned}$$

$$\begin{aligned}
& e^h^2 l^2 - 3a^2 b^3 c^4 d^2 h^2 m^2 - 6a^2 b^3 c^4 e^2 h^2 l^2 - 3a^2 b^3 c^4 f^2 \\
& h^2 k^2 - 3a^2 b^3 c^4 g^2 h^2 j^2 + 3a^2 b^2 c^3 d^2 j^2 k^3 + 2a^2 b^3 c^2 e^2 h^2 \\
& l^3 - 4a^2 b^3 c^2 f^2 g^2 l^3 + 3a^2 b^2 c^4 d^2 j^2 l^3 - 3a^2 b^4 c^2 f^2 g^2 m^2 \\
& - 3a^2 b^3 c^4 g^2 h^2 k^2 - 4a^2 b^3 c^2 d^2 j^2 l^3 + 12a^3 b^2 c^2 e^2 h^2 m^3 - \\
& 9a^3 b^2 c^2 f^2 g^2 m^3 + 3a^2 b^3 c^4 d^2 k^2 l^2 - 3a^2 b^3 c^4 f^2 h^2 m^2 + 3a^2 b^3 c^4 f^2 j^2 k^2 \\
& + 8a^2 b^2 c^3 d^2 j^3 m^2 + 2a^2 b^2 c^3 e^2 j^3 l^2 - a^2 b^2 c^3 f^2 j^3 k^2 + 3a^3 b^3 c^3 d^2 j^2 m^2 \\
& + 6a^3 b^3 c^3 f^2 h^2 m^2 + 3a^3 b^2 c^2 d^2 j^2 m^3 + 12a^2 b^3 c^3 e^2 j^2 m^2 - 15a^2 b^4 c^2 e^2 j^2 m^2 \\
& - 9a^2 b^3 c^4 e^2 j^2 m^2 - 3a^2 b^2 c^3 g^2 h^3 m^2 + a^2 b^3 c^2 d^2 k^3 m^2 - 2a^2 b^3 c^2 e^2 k^3 l^2 \\
& + a^2 b^3 c^2 g^2 j^2 k^3 - 3a^3 b^3 c^3 g^2 h^2 m^2 - 3a^2 b^2 c^3 h^3 j^2 k^2 - 3a^3 b^3 c^3 h^2 j^2 k^2 \\
& + 3a^3 b^2 c^2 d^2 l^3 m^2 + 3a^3 b^2 c^2 f^2 k^2 l^3 + 3a^3 b^2 c^2 g^2 j^2 l^3 + 3a^2 b^3 c^2 g^2 j^3 m^2 \\
& - 3a^2 b^4 c^2 g^2 j^2 m^2 - 6a^3 b^3 c^3 f^2 k^2 m^2 + 3a^2 b^4 c^2 h^2 j^2 m^2 + 3a^3 b^3 c^3 g^2 k^2 m^2 \\
& + 6a^3 b^3 c^3 h^2 j^2 m^2 - a^3 b^2 c^2 g^2 k^3 m^2 + 2a^3 b^2 c^2 h^2 k^3 l^2 - 3a^4 b^3 c^2 f^2 l^2 m^2 \\
& + 3a^2 b^3 c^2 h^3 k^2 m^2 - 3a^4 b^3 c^2 h^2 k^2 m^2 - 3a^3 b^2 c^2 j^3 k^2 m^2 + 3a^3 b^3 c^2 j^2 k^2 m^2 \\
& - 3a^4 b^3 c^2 j^2 k^2 m^2 - 3a^4 b^3 c^2 j^2 l^2 m^2 + 3a^4 b^2 c^2 j^2 l^2 m^2 + 3a^4 b^2 c^2 k^2 l^2 m^2 \\
& - 2a^2 b^3 c^5 d^2 f^2 h^3 - 2a^2 b^3 c^5 e^2 g^3 h^2 + a^2 b^3 c^5 d^2 g^3 j^2 - 3b^3 c^6 d^2 e^2 f^2 g^2 + 6a^2 c^6 d^2 e^2 g^2 h^2 \\
& + 6b^3 c^6 d^2 e^2 f^2 h^2 - 6a^2 b^3 c^5 d^2 f^3 m^2 + 3a^2 b^3 c^5 f^3 g^2 j^2 - 6a^2 b^5 c^2 d^2 f^2 m^3 \\
& - 6a^2 c^6 d^2 e^2 f^2 k^2 - 6a^2 c^6 e^2 f^2 g^2 h^2 - 3b^3 c^6 d^2 e^2 f^2 j^2 - 7a^2 b^3 c^5 e^3 g^2 m^2 \\
& + 8a^2 b^3 c^5 e^3 h^2 l^2 - 2a^2 b^5 c^2 e^2 h^2 l^3 + a^2 b^5 c^2 f^2 g^2 l^3 + 12a^2 c^6 d^2 e^2 f^2 l^2 \\
& - 6a^2 c^6 d^2 e^2 g^2 k^2 - 6a^2 c^6 d^2 e^2 h^2 j^2 - 7a^2 b^3 c^5 e^3 j^2 k^2 + a^2 b^5 c^2 d^2 j^2 l^3 \\
& - 6a^2 c^6 d^2 e^2 f^2 m^2 - 6a^2 c^6 d^2 e^2 g^2 l^2 + 6a^2 c^6 d^2 e^2 h^2 k^2 + 6a^2 c^6 d^2 f^2 g^2 k^2 \\
& + 2a^2 b^3 c^5 d^3 k^2 m^2 - 3b^6 c^2 d^2 f^2 j^2 m^2 - 3b^6 c^2 e^2 k^2 l^2 m^2 - 9a^2 b^2 c^3 e^2 h^2 l^2 \\
& + 3a^2 b^2 c^3 g^2 h^2 k^2 + 9a^2 b^2 c^3 f^2 g^2 m^2 - 9a^2 b^3 c^2 d^2 j^2 m^2 - 3a^2 b^3 c^2 f^2 h^2 m^2 \\
& + 18a^2 b^2 c^3 e^2 j^2 m^2 - 3a^2 b^2 c^3 g^2 j^2 k^2 + 3a^2 b^2 c^3 d^2 l^2 m^2 + 3a^2 b^2 c^3 f^2 k^2 l^2 \\
& + 3a^2 b^2 c^3 g^2 j^2 l^2 + 3a^2 b^3 c^2 f^2 k^2 m^2 + 6a^3 b^2 c^2 g^2 j^2 m^2 - 3a^2 b^3 c^2 h^2 j^2 m^2 \\
& - 9a^3 b^2 c^2 h^2 j^2 m^2 + 3a^3 b^2 c^2 g^2 l^2 m^2 + 3a^3 b^2 c^2 j^2 k^2 l^2 + 6a^2 b^3 c^5 d^2 e^2 k^2 \\
& - 3a^2 b^3 c^5 d^2 f^2 j^2 - 6a^2 b^3 c^5 d^2 f^2 k^2 + 6a^2 b^3 c^5 e^2 f^2 j^2 - 3a^2 b^3 c^5 f^2 g^2 h^2 \\
& - a^2 b^2 c^4 f^2 g^2 h^3 - 4a^2 b^3 c^3 d^2 f^2 k^3 + 6a^2 b^3 c^4 d^2 f^2 k^3 - 3a^2 b^3 c^5 d^2 h^2 j^2 \\
& - a^2 b^2 c^4 d^2 h^3 j^2 + 5a^2 b^4 c^2 d^2 f^2 l^3 - 3b^2 c^5 d^2 e^2 f^2 h^2 + 6a^2 b^3 c^5 e^2 g^2 k^2 \\
& - 2a^2 b^3 c^3 e^2 h^2 j^3 + a^2 b^3 c^3 f^2 g^2 j^3 + 4a^2 b^3 c^4 e^2 h^2 j^3 + a^2 b^3 c^4 f^2 g^2 j^3 \\
& - 10a^3 b^3 c^3 d^2 f^2 m^3 - 3a^2 b^3 c^5 d^2 g^2 m^2 + 6a^2 b^3 c^5 e^2 f^2 m^2 - 3a^2 b^2 c^4 f^2 g^3 k^2 \\
& + 2a^2 b^4 c^2 e^2 h^2 k^3 - a^2 b^4 c^2 f^2 g^2 k^3 + 3b^2 c^5 d^2 f^2 g^2 h^2 - 6a^2 b^3 c^3 e^2 h^3 l^2 \\
& - a^2 b^4 c^2 d^2 j^2 k^3 + 4a^2 b^3 c^4 d^2 h^3 m^2 + 4a^2 b^3 c^4 e^2 h^3 l^2 + 4a^2 b^3 c^4 f^2 h^3 k^2 \\
& + 4a^2 b^3 c^4 g^2 h^3 j^2 - 12a^2 c^5 d^2 e^2 f^2 l^2 + 3a^3 b^3 c^3 f^2 g^2 l^3 + 3b^2 c^5 d^2 e^2 f^2 k^2 \\
& - 3b^2 c^5 e^2 f^2 g^2 h^2 - 3a^2 b^2 c^4 f^3 g^2 m^2 - 10a^2 b^4 c^2 e^2 h^2 m^3 + 5a^2 b^4 c^2 f^2 g^2 m^3 \\
& - 6a^2 c^5 d^2 e^2 h^2 k^2 - 6a^2 c^5 d^2 f^2 g^2 k^2 + 3a^3 b^3 c^3 d^2 j^2 l^3 - 6b^2 c^5 d^2 e^2 f^2 l^2 \\
& + 6b^2 c^5 d^2 e^2 g^2 k^2 - 3b^2 c^5 d^2 e^2 h^2 j^2 - 3b^4 c^3 d^2 e^2 f^2 l^2 - 3a^2 b^4 c^2 d^2 j^3 m^2 \\
& + 3a^2 b^5 c^2 d^2 j^2 m^2 + 2a^2 b^4 c^2 d^2 j^2 m^3 - 6a^2 c^5 e^2 f^2 h^2 j^2 + 3b^2 c^5 d^2 e^2 f^2 m^2 \\
& - 6b^2 c^5 d^2 f^2 g^2 k^2 + 3b^2 c^5 d^2 f^2 h^2 j^2 + 3b^3 c^4 d^2 f^2 g^2 k^2 - 3b^4 c^3 d^2 f^2
\end{aligned}$$

$$\begin{aligned}
& *g^k^2 + 3a^2b^3c^4g^3j^k - 6a^2c^5d^2e^j^2k + 6a^2c^5d^2g^h^2k - \\
& 2a^3b^3c^3d^2k^3m + 4a^3b^3c^3e^k^3l + a^3b^3c^3g^j^k^3 - 3b^3c^4d^2 \\
& *f^2g^1 - 3b^3c^4d^2f^2h^k + 10a^2b^2c^4e^3k^m - a^2b^4c^3d^2l^3m - \\
& a^2b^4c^3f^2k^1^3 - a^2b^4c^3g^j^1^3 - 6a^2c^5d^2g^2h^1 - 6a^2c^5e^e \\
& f^2g^2m - 6a^2c^5e^2g^2h^k + 3b^3c^4d^2e^2h^m + 3b^3c^4e^2f^2g^1 + \\
& 3b^3c^4e^2f^2h^k + 3b^3c^4e^2g^2h^j - 3b^4c^3d^2f^2h^2l + 3b^5c^2 \\
& 2d^2f^2h^1^2 + 2a^2b^3c^4f^3k^m - 6a^2c^5e^2f^2h^m - 5a^3b^3c^3g^j^3 \\
& *m - 2a^3b^3c^3h^j^3l + 8a^3b^3c^3e^1m^3 - 4a^3b^3c^3f^2k^m^3 - a^3b^3 \\
& c^3g^j^m^3 + 6a^3c^4e^2f^2h^m^2 - 6a^4b^3c^2e^1m^3 + 6a^4b^3c^2f^2k^ \\
& *m^3 - 3a^4b^3c^2g^j^m^3 + 3b^3c^4d^2e^2j^1 - 3b^3c^4d^2f^2h^m - 6 \\
& a^2c^5d^2f^2j^m + 6a^2c^5d^2f^2k^1 + 6a^2c^5e^2f^2j^1 + 6a^2c^5e^ \\
& ^2g^2h^m - 6a^3c^4d^2e^2k^m^2 + 6a^3c^4d^2f^2j^m^2 - 6a^3c^4f^2g^2h^1^2 \\
& - 3b^3c^4d^2f^2j^1 - 12a^2c^5d^2e^2l^m + 6a^2c^5e^2f^2j^m - 12a^2 \\
& *c^5e^2f^2k^1 - 12a^2c^5e^2g^2j^1 + 6a^2c^5e^2h^2j^k - 6a^3b^3c^3h^ \\
& ^3k^m + a^3b^3c^3g^1^3m + 12a^3c^4d^2e^1^2m - 6a^3c^4d^2g^2k^1^2 - 6 \\
& *a^3c^4d^2h^2j^1^2 + 12a^3c^4e^2f^2k^1^2 + 12a^3c^4e^2g^2j^1^2 + a^4b^3c^ \\
& ^2g^1^3m - 6b^4c^3d^2f^2j^m + 3b^4c^3d^2f^2k^1 - 3b^4c^3e^2g^2h^m \\
& + 3b^5c^2d^2f^2j^2m + 6a^2c^5d^2f^2l^m - 6a^2c^5d^2g^2k^m - 6a^2c^ \\
& ^5d^2h^2k^1 + a^3b^3c^3j^2k^1^3 + 6a^3c^4d^2g^2k^2m + 6a^3c^4d^2h^2k^ \\
& ^2l - 6a^3c^4e^2f^2k^2m - 6a^3c^4e^2g^2k^2l + a^4b^3c^2j^2k^1^3 - 6a^4b^ \\
& ^2c^3h^1m^3 - 3b^4c^3d^2e^2l^m + 6b^4c^3e^2f^2j^m - 3b^4c^3e^2f^2f^ \\
& *k^1 - 3b^4c^3e^2g^2j^1 - 3b^4c^3e^2h^2j^k + 6a^3c^4e^2h^2j^2m + 6 \\
& a^3c^4f^2h^2j^2l + 3b^4c^3d^2f^2l^m + 6a^3c^4d^2j^2k^1 - 6a^3c^4f^2 \\
& *h^2j^2m + 6a^3c^4f^2g^2l^m + 6a^3c^4g^2h^2k^1 - 4a^4b^2c^3k^1^3m \\
& + 3b^5c^2e^2g^2l^m + 3b^5c^2e^2h^2k^m + 6a^3c^4f^2h^2l^m - 6a^4c^ \\
& ^3f^2h^1m^2 + 3b^5c^2e^2j^2k^1 + 6a^3c^4f^2j^2k^m + 6a^4c^3d^2k^1m^ \\
& ^2 + 6a^4c^3e^2j^1m^2 - 6a^4c^3f^2j^2k^m^2 + 6a^4c^3g^2h^1^2m + 12 \\
& a^3c^4e^2k^1m - 12a^4c^3e^2k^1^2m + 6a^4c^3f^2j^1^2m + 6a^4c^3h^ \\
& ^2j^2k^1^2 + 6a^4c^3f^2k^2l^m - 6a^4c^3h^2j^2l^m + 12a^2b^2c^4d^2e^2f^ \\
& ^1^2 + 6a^2b^2c^4d^2e^2h^2k^2 + 6a^2b^2c^4d^2f^2g^2k^2 + 3a^2b^2c^4d^2g^2h^2j^ \\
& ^2 + 6a^2b^2c^4e^2f^2h^2j^2 - 3a^2b^2c^4d^2e^2g^2m^2 - 6a^2b^2c^4d^2e^2h^2m^ \\
& + 3a^2b^2c^4d^2e^2j^2k^2 + 9a^2b^2c^4d^2f^2h^2l - 6a^2b^2c^4e^2f^2h^2k - 6a^ \\
& ^2b^2c^4e^2g^2h^2j - 12a^2b^3c^3d^2f^2h^1^2 + 3a^2b^3c^3e^2f^2g^1^2 + 6a^2 \\
& *b^3c^4d^2f^2h^1^2 - 3a^2b^3c^4e^2f^2g^1^2 + 3a^2b^2c^4e^2f^2g^2m + 6a^2b^2c^ \\
& ^4e^2g^2h^2k + 3a^2b^2c^4f^2g^2h^2j + 3a^2b^3c^3d^2e^2j^1^2 - 6a^2b^3c^3 \\
& *e^2g^2h^2k^2 - 3a^2b^3c^4d^2e^2j^1^2 + 12a^2b^3c^4e^2g^2h^2k^2 - 3a^2b^2c^4d^ \\
& *g^2j^2k + 6a^2b^2c^4e^2f^2h^2m + 3a^2b^2c^4f^2g^2h^2k + 3a^2b^3c^3d^2g^2 \\
& j^2k^2 + 6a^2b^4c^2e^2f^2h^2m^2 - 6a^2b^3c^4d^2e^2k^2l - 3a^2b^3c^4d^2g^2j^2k \\
& ^2 - 3a^2b^3c^4e^2f^2j^2k^2 + 15a^2b^2c^4d^2f^2j^2m - 9a^2b^2c^4d^2f^2k^1 \\
& + 3a^2b^2c^4e^2g^2h^2m - 6a^2b^3c^3d^2f^2j^2m - 3a^2b^3c^3d^2g^2j^2l - \\
& 3a^2b^3c^3d^2h^2j^2k + 6a^2b^3c^3e^2g^2h^2m + 3a^2b^3c^3f^2g^2h^2l + 12 \\
& a^2b^4c^2d^2f^2j^2m^2 - 3a^2b^4c^2f^2g^2h^1^2 + 3a^2b^3c^4d^2g^2j^2l + 6a^2 \\
& *b^3c^4d^2h^2j^2k - 6a^2b^3c^4e^2f^2j^2l - 9a^2b^3c^4e^2g^2h^2m - 3a^2b^3c^ \\
& ^4e^2g^2j^2k - 3a^2b^3c^4f^2g^2h^2l + 9a^2b^2c^4d^2e^2l^m - 18a^2b^2c^ \\
& ^4e^2f^2j^2m + 9a^2b^2c^4e^2f^2k^1 + 9a^2b^2c^4e^2g^2j^1 + 3a^2b^2c^4e
\end{aligned}$$

$$\begin{aligned}
& ^2h^*j^*k + 3*a*b^3*c^3*d*h^2*j*1 + 6*a*b^3*c^3*e*h^2*j^*k - 3*a*b^3*c^3*f*g^2*h^*m - 3*a*b^4*c^2*d*h^*j*1^2 - 3*a^2*b*c^4*d*h^2*j*1 - 9*a^2*b*c^4*e*h^2*j^*k + 6*a^2*b*c^4*f*g^2*h^*m - 9*a*b^2*c^4*d^2*f*1^*m + 3*a*b^2*c^4*d^2*g^*k^*m + 3*a*b^2*c^4*d^2*h^*j^*m - 3*a*b^3*c^3*f*g^2*j*1 - 3*a^2*b*c^4*e*g^2*j^*m - 6*a^2*b*c^4*e*g^2*k*1 + 3*a^2*b*c^4*f*g^2*j*1 + 6*a*b^3*c^3*f^2*g^*j^*m - 3*a*b^3*c^3*f^2*g^*k*1 + 6*a*b^4*c^2*e*h^*j^2^*m - 3*a*b^4*c^2*f*g^*j^2^*m - 6*a^2*b*c^4*e*f^2*1^*m - 9*a^2*b*c^4*f^2*g^*j^*m + 3*a^2*b*c^4*f^2*g^*k*1 + 3*a^3*b*c^3*d*g^*1^*m^2 + 6*a^3*b*c^3*d*h^*k^*m^2 + 12*a^3*b*c^3*e*f*1^*m^2 - 3*a^3*b*c^3*e*g^*k^*m^2 - 18*a^3*b*c^3*e*h^*j^*m^2 + 9*a^3*b*c^3*f*g^*j^*m^2 - 12*a*b^3*c^3*e^2*g^*1^*m - 6*a*b^3*c^3*e^2*h^*k^*m + 3*a*b^4*c^2*d^*j^2^*k*1 - 6*a*b^4*c^2*e*h^2^*k^*m + 15*a^2*b*c^4*e^2*g^*1^*m - 6*a^2*b*c^4*e^2*h^*k^*m - 9*a^3*b*c^3*e*g^*1^2^*m - 12*a*b^3*c^3*e^2*j^*k*1 + 3*a*b^4*c^2*f*g^2^*1^*m + 15*a^2*b*c^4*e^2*j^*k*1 - 9*a^3*b*c^3*e*j^*k*1^2 + 6*a^3*b*c^3*f*h^*k^2^*m - 6*a^3*b*c^3*g^*h^*k^2^*1 - 3*a*b^3*c^3*d^2*j*1^*m + 3*a^2*b*c^4*d^2*j*1^*m - 3*a^3*b*c^3*e*j^*k^2^*m + 3*a^3*b*c^3*f*j^*k^2^*1 + 3*a^2*b^4*c*d*k*1^*m^2 + 6*a^2*b^4*c*e*j*1^*m^2 - 3*a^2*b^4*c*f*j^*k^*m^2 + 12*a^3*b*c^3*e*j^2^*1^*m + 3*a^3*b*c^3*g^*h^2^*1^*m + 3*a^3*b*c^3*g^*j^2^*k*1 + 15*a*b^4*c^2*e^2*k*1^*m - 6*a^2*b^4*c*e*k*1^2^*m + 3*a^3*b*c^3*h^2^*j^*k*1 + 3*a^2*b^4*c*f*k^2^*1^*m + 3*a^3*b*c^3*g^2^*j*1^*m - 3*a^3*b^3*c*g^*k*1^*m^2 - 6*a^3*b^3*c*h^*j*1^*m^2 + 3*a^4*b*c^2*g^*k*1^*m^2 + 12*a^4*b*c^2*h^*j*1^*m^2 - 3*a^2*b^4*c*h^2^*k*1^*m + 6*a^3*b^3*c*h^*k*1^2^*m - 6*a^4*b*c^2*h^*k*1^2^*m - 3*a^3*b^3*c*j^*k^2^*1^*m + 3*a^4*b*c^2*j^*k^2^*1^*m + 3*b^6*c*d*f*k*1^*m + 3*a^2*b^2*c^3*d*g^*h^*m^2 - 18*a^2*b^2*c^3*e*f*h^*m^2 + 3*a^2*b^2*c^3*d*e*k^*m^2 - 15*a^2*b^2*c^3*d*f*j^*m^2 + 9*a^2*b^2*c^3*f*g^*h*1^2 - 9*a^2*b^2*c^3*d*e*1^2^*m + 9*a^2*b^2*c^3*d*h^*j*1^2 - 9*a^2*b^2*c^3*e*f*k*1^2 - 9*a^2*b^2*c^3*e*g^*j*1^2 - 3*a^2*b^2*c^3*d*g^*k^2^*m + 3*a^2*b^2*c^3*e*f*k^2^*m + 6*a^2*b^2*c^3*e*g^*k^2^*1 + 3*a^2*b^2*c^3*f*h^*j^*k^2 - 18*a^2*b^2*c^3*e*h^*j^2^*m + 3*a^2*b^2*c^3*f*g^*j^2^*m + 3*a^2*b^2*c^3*g^*h^*j^2^*k - 3*a^2*b^3*c^2*d*g^*1^*m^2 - 3*a^2*b^3*c^2*d*h^*k^*m^2 - 6*a^2*b^3*c^2*e*f*1^*m^2 + 24*a^2*b^3*c^2*e*h^*j^*m^2 - 9*a^2*b^3*c^2*f*g^*j^*m^2 - 6*a^2*b^2*c^3*d*h^2^*1^*m - 9*a^2*b^2*c^3*d^*j^2^*k*1 + 15*a^2*b^2*c^3*e*h^2^*k^*m + 6*a^2*b^2*c^3*f*h^2^*j^*m - 6*a^2*b^2*c^3*f*h^2^*k*1 - 6*a^2*b^2*c^3*g^*h^2^*j*1 + 3*a^2*b^3*c^2*d*h*1^2^*m + 6*a^2*b^3*c^2*e*g^*1^2^*m + 3*a^2*b^3*c^2*f*h^*k*1^2 + 3*a^2*b^3*c^2*g^*h^*j*1^2 - 9*a^2*b^2*c^3*f*g^2^*1^*m + 3*a^2*b^2*c^3*g^2^*h^*j^*m + 6*a^2*b^3*c^2*e*j^*k*1^2 - 3*a^2*b^3*c^2*f*h^*k^2^*m - 3*a^2*b^3*c^2*f*j^*k^2^*1 + 6*a^3*b^2*c^2*f*h*1^*m^2 + 3*a^3*b^2*c^2*g^*h^*k^*m^2 - 6*a^2*b^2*c^3*f^2*j^*k^*m - 6*a^2*b^3*c^2*e*j^2^*1^*m + 3*a^2*b^3*c^2*f*j^2^*k^*m + 3*a^2*b^3*c^2*g^*h^2^*1^*m - 3*a^2*b^3*c^2*g^*j^2^*k*1 - 9*a^3*b^2*c^2*d*k*1^*m^2 - 18*a^3*b^2*c^2*e*j*1^*m^2 + 6*a^3*b^2*c^2*f*j^*k^*m^2 - 9*a^3*b^2*c^2*g^*h*1^2^*m - 24*a^2*b^2*c^3*e^2*k*1^*m + 3*a^2*b^3*c^2*h^2^*j^*k*1 + 18*a^3*b^2*c^2*e*k*1^2^*m - 9*a^3*b^2*c^2*h^*j^*k*1^2 - 3*a^2*b^3*c^2*g^2^*j*1^*m - 9*a^3*b^2*c^2*f*k^2^*1^*m + 3*a^3*b^2*c^2*h^*j^*k^2^*m + 6*a^3*b^2*c^2*h^*j^2^*1^*m + 3*a^3*b^2*c^2*h^2^*k*1^*m - 3*a*b*c^5*d*e*g^*j^2 + 9*a*b*c^5*e*f*g^*h^2 + 9*a*b*c^5*d*e*h^2^*j - 3*a*b*c^5*e*f*g^2^*j + 3*a*b*c^5*d*f^2^*g*1 + 6*a*b*c^5*d*f^2^*h^*k - 3*a*b*c^5*e*f^2^*g^*k - 6*a*b*c^5*e*f^2^*h^*j - 3*a*b*c^5*e^2^*f*g*1 - 3*a*b*c^5*d*e^2^*j*1 + 6*a*b*c^5*d^2^*f*h^*m + 6*a*b*c^5*d^2^*g^*h*1 + 3*b^2*c^5*d*e*f*g^*j - 3*a*b*c^5*d^2^*e*j^*m + 3*a*b*c^5*d^2^*f*j*1 + 3*a*b
\end{aligned}$$

$$\begin{aligned}
& *c^5*d^2*g*j*k - 3*b^3*c^4*d*e*f*g*m + 6*b^3*c^4*d*e*f*h*1 - 3*b^3*c^4*d*f* \\
& g*h*j - 3*b^3*c^4*d*e*f*j*k - 6*a*b^5*c*e*h*j*m^2 + 3*a*b^5*c*f*g*j*m^2 + 1 \\
& 2*a^2*c^5*e*f*g*h*1 + 12*a^2*c^5*d*e*f*k*m + 12*a^2*c^5*d*e*g*k*1 + 12*a^2* \\
& c^5*d*e*h*j*1 + 3*b^4*c^3*d*f*g*h*m + 3*b^4*c^3*d*e*f*k*m + 3*b^4*c^3*d*f*g \\
& *j*1 + 3*b^4*c^3*d*f*h*j*k - 3*b^5*c^2*d*f*g*1*m - 3*b^5*c^2*d*f*h*k*m - 3* \\
& b^5*c^2*d*f*j*k*1 - 12*a^3*c^4*e*g*h*1*m - 12*a^3*c^4*d*f*k*1*m - 12*a^3*c^ \\
& 4*e*f*j*1*m - 12*a^3*c^4*e*h*j*k*1 - 6*a*b^2*c^4*d*f*g*h*m - 12*a*b^2*c^4*e \\
& *f*g*h*1 - 12*a*b^2*c^4*d*e*f*k*m + 3*a*b^2*c^4*d*e*g*j*m - 12*a*b^2*c^4*d* \\
& e*h*j*1 - 3*a*b^2*c^4*d*f*g*j*1 - 6*a*b^2*c^4*d*f*h*j*k + 3*a*b^2*c^4*e*f*g \\
& *j*k + 6*a*b^3*c^3*d*e*h*1*m + 9*a*b^3*c^3*d*f*g*1*m + 12*a*b^3*c^3*d*f*h*k \\
& *m - 3*a*b^3*c^3*d*g*h*j*m - 3*a*b^3*c^3*e*f*g*k*m - 12*a*b^3*c^3*e*f*h*j*m \\
& + 6*a*b^3*c^3*e*f*h*k*1 + 6*a*b^3*c^3*e*g*h*j*1 - 3*a*b^3*c^3*f*g*h*j*k - \\
& 6*a^2*b*c^4*d*f*g*1*m - 12*a^2*b*c^4*d*f*h*k*m + 6*a^2*b*c^4*e*f*g*k*m + 24 \\
& *a^2*b*c^4*e*f*h*j*m - 3*a*b^3*c^3*d*e*j*k*m + 9*a*b^3*c^3*d*f*j*k*1 + 6*a^ \\
& 2*b*c^4*d*e*j*k*m - 6*a^2*b*c^4*d*f*j*k*1 - 6*a*b^4*c^2*e*g*h*1*m + 3*a*b^4 \\
& *c^2*f*g*h*k*m - 15*a*b^4*c^2*d*f*k*1*m + 3*a*b^4*c^2*d*g*j*1*m + 3*a*b^4*c \\
& ^2*d*h*j*k*m - 6*a*b^4*c^2*e*h*j*k*1 + 3*a*b^4*c^2*f*g*j*k*1 + 12*a^3*b*c^3 \\
& *e*h*k*1*m - 6*a^3*b*c^3*f*g*k*1*m - 12*a^3*b*c^3*f*h*j*1*m - 6*a^3*b*c^3*d \\
& *j*k*1*m + 3*a^2*b^4*c*g*j*k*1*m + 12*a^2*b^2*c^3*e*g*h*1*m - 6*a^2*b^2*c^3 \\
& *f*g*h*k*m + 24*a^2*b^2*c^3*d*f*k*1*m - 3*a^2*b^2*c^3*d*g*j*1*m - 6*a^2*b^2 \\
& *c^3*d*h*j*k*m + 12*a^2*b^2*c^3*e*f*j*1*m + 3*a^2*b^2*c^3*e*g*j*k*m + 12*a^ \\
& 2*b^2*c^3*e*h*j*k*1 - 3*a^2*b^2*c^3*f*g*j*k*1 - 18*a^2*b^3*c^2*e*h*k*1*m + \\
& 9*a^2*b^3*c^2*f*g*k*1*m - 3*a^2*b^3*c^2*g*h*j*k*m + 9*a^2*b^3*c^2*d*j*k*1*m \\
& - 3*a^3*b^2*c^2*g*j*k*1*m + 6*a*b*c^5*d*e*f*g*m - 12*a*b*c^5*d*e*f*h*1 - 1 \\
& 2*a*b*c^5*d*e*g*h*k + 6*a*b*c^5*d*e*f*j*k + 6*a*b^5*c*e*h*k*1*m - 3*a*b^5*c \\
& *f*g*k*1*m - 3*a*b^5*c*d*j*k*1*m)) / c^3 - (a*c^6*f^5 - c^7*d*e^4 + c^7*d^4*h \\
& - a^6*c*m^5 - c^7*d^3*f^2 + a^5*b^2*m^5 + a^2*c^5*d*h^4 - a^3*b*c^3*j^5 + \\
& a*c^6*d^3*j^2 + 3*c^7*d^2*e^2*f - a^2*c^5*g^4*h + a^3*c^4*f*j^4 - a^4*c^3*d \\
& *l^4 + a*b^6*f^2*m^3 + 2*a^3*b^4*f*m^4 - 5*a^2*c^5*f^4*m - a^3*c^4*h^4*k + \\
& a^4*c^3*h*k^4 + 5*a^5*c^2*f*m^4 - 2*a^4*b^3*j*m^4 - a^4*c^3*j^4*m + a^5*c^2 \\
& *k*1^4 - a^2*c^5*f^2*h^3 - b^2*c^5*d^3*j^2 + 2*a^2*c^5*f^3*j^2 - a^2*c^5*d^ \\
& 3*m^2 + a^3*c^4*f^2*k^3 + a^3*c^4*h^3*j^2 - b^4*c^3*d^3*m^2 + 10*a^3*c^4*f^ \\
& 3*m^2 - 10*a^4*c^3*f^2*m^3 - a^4*c^3*h^3*m^2 - a^4*c^3*j^2*k^3 + a^3*b^4*j^ \\
& 2*m^3 - 2*a^5*c^2*j^2*m^3 + a^5*c^2*k^3*m^2 - 2*c^7*d^3*e*g + a*c^6*e^4*k - \\
& b*c^6*d^4*1 + b^7*d*e*m^3 + a*b*c^5*e*g^4 - 2*a*c^6*d*e*g^3 + b*c^6*d*e*f^ \\
& 3 - 3*a*b*c^5*f^4*j - 4*a*c^6*d*f^3*h - 4*a*c^6*e*f^3*g + 3*b*c^6*d*e^3*h - \\
& 2*a*c^6*e^3*g*h - b*c^6*d^3*g*h + 4*a*c^6*d*e^3*1 - 2*a*c^6*e^3*f*j + 2*b* \\
& c^6*d^3*e*k + 2*b*c^6*d^3*f*j - b^6*c*d*e*1^3 + 2*a*c^6*d^3*f*m + 2*a*c^6*d \\
& ^3*g*1 - 4*a*c^6*d^3*h*k - a*b^6*d*h*m^3 - a*b^6*e*g*m^3 + a^5*b*c*j*m^4 - \\
& 3*a^2*b^2*c^3*f^2*k^3 + 4*a^2*b^3*c^2*f^2*1^3 - 10*a^2*b^2*c^3*f^3*m^2 + 12 \\
& *a^3*b^2*c^2*f^2*m^3 + a^3*b^2*c^2*j^2*k^3 - a*b^2*c^4*d*h^4 - a*b*c^5*f^2* \\
& g^3 + a*b*c^5*e^3*j^2 + 3*a*c^6*d*f^2*g^2 + 3*b*c^6*d^2*e*g^2 + a^2*b*c^4*g \\
& *h^4 - b^2*c^5*d*e*g^3 + 3*a*c^6*d^2*f*h^2 + 3*a*c^6*e^2*f*g^2 - a^2*b^4*c* \\
& d*1^4 - 2*a^3*b*c^3*e*k^4 + b^3*c^4*d*e*h^3 + 3*a*c^6*e^2*f^2*h + 2*a^2*c^5 \\
& *d*e*j^3 - a*b^5*c*f^2*1^3 - 3*b*c^6*d^2*e^2*j - 2*a^2*c^5*e*g*h^3 - b^4*c^
\end{aligned}$$

$$\begin{aligned}
& 3*d*e*j^3 + 3*a*b^2*c^4*f^4*m + 3*a*c^6*d^2*f^2*k + a^3*b^3*c*g*l^4 + 4*a^3 \\
& *c^4*d*e*l^3 - 2*a^4*b*c^2*g*l^4 - 6*a^4*b^2*c*f*m^4 + b^5*c^2*d*e*k^3 - 3* \\
& a*c^6*d^2*e^2*m - 3*b^2*c^5*d*e^3*l + 2*a^2*c^5*d*g^3*l + 2*a^2*c^5*e*g^3*k \\
& + 2*a^2*c^5*f*g^3*j - 4*a^3*c^4*d*h*k^3 + 2*a^3*c^4*e*g*k^3 - 2*b^2*c^5*d^ \\
& 3*f*m + b^2*c^5*d^3*g*l + b^2*c^5*d^3*h*k + 4*a^2*c^5*f^3*g*l + 4*a^2*c^5*f \\
& ^3*h*k - 2*a^3*c^4*g*h*j^3 + a^4*b*c^2*k^4*l - a^4*b^2*c*k*l^4 + 4*a^4*c^3* \\
& d*h*m^3 + 4*a^4*c^3*e*g*m^3 - 2*a^3*c^4*d*j^3*l - 2*a^3*c^4*e*j^3*k + a^2*b \\
& ^5*g*h*m^3 + 2*a^3*c^4*f*h^3*m + 2*a^3*c^4*g*h^3*l + 2*a^4*c^3*g*h*l^3 - a^ \\
& 5*b*c*l^3*m^2 + a^2*b^5*d*l*m^3 + a^2*b^5*e*k*m^3 - 2*a^2*b^5*f*j*m^3 + 2*a \\
& ^2*c^5*e^3*j*m - 4*a^2*c^5*e^3*k*l - 4*a^4*c^3*e*k*l^3 + 2*a^4*c^3*f*j*l^3 \\
& + 2*b^3*c^4*d^3*j*m - b^3*c^4*d^3*k*l - 2*a^3*c^4*g^3*j*m - 2*a^3*c^4*g^3*k \\
& *l - 2*a^4*c^3*f*k^3*m - 2*a^4*c^3*g*k^3*l - a^3*b^4*g*l*m^3 - a^3*b^4*h*k* \\
& m^3 - 4*a^5*c^2*g*l*m^3 - 4*a^5*c^2*h*k*m^3 + 2*a^4*c^3*j^3*k*l + a^4*b^3*k \\
& *l*m^3 - 2*a^5*c^2*j*l^3*m + a*b^2*c^4*f^2*h^3 + 3*a*b^2*c^4*f^3*j^2 - a*b^ \\
& 3*c^3*f^2*j^3 - 4*a^2*b*c^4*f^2*j^3 + 2*a^2*b^2*c^3*f*j^4 + a^2*b^3*c^2*e*k \\
& ^4 + 3*a^3*b^2*c^2*d*l^4 - 3*b^2*c^5*d*e^2*h^2 + 3*a*b^2*c^4*d^3*m^2 + a*b^ \\
& 4*c^2*f^2*k^3 + a*b^3*c^3*e^3*m^2 - 2*a^2*b*c^4*e^3*m^2 - 3*a^3*b*c^3*f^2*l \\
& ^3 + 3*a*b^4*c^2*f^3*m^2 - 5*a^2*b^4*c*f^2*m^3 - 6*a^2*c^5*d*e^2*l^2 - 3*a^ \\
& 2*c^5*d*f^2*k^2 - 3*a^2*c^5*d*g^2*j^2 + 3*a^2*c^5*f*g^2*h^2 - a^3*b^2*c^2*h \\
& *k^4 + 3*b^3*c^4*d^2*e*k^2 + 3*a^2*c^5*d^2*f*l^2 + 3*a^2*c^5*e^2*f*k^2 + a^ \\
& 3*b*c^3*g^3*m^2 - 3*b^4*c^3*d*e^2*l^2 + 6*a^2*c^5*d^2*h*k^2 - 3*a^2*c^5*e^2 \\
& *h*j^2 + 3*b^2*c^5*d^2*e^2*m - 3*a^2*c^5*f^2*g^2*k - a^3*b^3*c*j^2*l^3 + 3* \\
& a^3*c^4*d*g^2*m^2 + 2*a^4*b*c^2*j^2*l^3 - 3*a^2*c^5*d^2*h^2*m - 3*a^2*c^5*d \\
& ^2*j^2*k - 3*a^2*c^5*e^2*g^2*m + 3*a^3*b^2*c^2*j^4*m - 3*a^3*b^3*c*j^3*m^2 \\
& + 3*a^3*c^4*d*j^2*k^2 + 3*a^3*c^4*f*g^2*l^2 + 3*a^3*c^4*f*h^2*k^2 + 3*a^4*b \\
& ^2*c*j^2*m^3 + 3*a^3*c^4*e^2*h*m^2 + 3*a^3*c^4*f^2*h*l^2 + 3*a^3*c^4*d^2*k* \\
& m^2 + 6*a^3*c^4*e^2*k*l^2 - 3*a^3*c^4*g^2*h^2*m + 3*a^3*c^4*g^2*j^2*k - 3*a \\
& ^4*c^3*d*k^2*m^2 - 3*a^3*c^4*d^2*l^2*m - 3*a^3*c^4*e^2*k^2*m - 6*a^3*c^4*f^ \\
& 2*j^2*m + 6*a^4*c^3*f*j^2*m^2 + 3*a^4*c^3*f*k^2*l^2 - 3*a^4*c^3*h*j^2*l^2 - \\
& 3*a^4*c^3*g^2*k*m^2 - 3*a^4*c^3*g^2*l^2*m - 3*a^4*c^3*h^2*k^2*m + 3*a^5*c^ \\
& 2*h*l^2*m^2 - 3*a^5*c^2*k^2*l^2*m + 9*a*b^2*c^4*d*e^2*l^2 + 3*a*b^2*c^4*d*f \\
& ^2*k^2 - 9*a^2*b^2*c^3*d*e*l^3 + 10*a^2*b^3*c^2*d*e*m^3 - 3*a*b^2*c^4*d^2*h \\
& *k^2 - 3*a*b^3*c^3*e*f^2*l^2 + 3*a*b^3*c^3*e*g^2*k^2 + 6*a^2*b*c^4*e*f^2*l^ \\
& 2 - 3*a^2*b*c^4*e*g^2*k^2 + 3*a^2*b^2*c^3*d*h*k^3 + 3*a*b^2*c^4*f^2*g^2*k + \\
& 3*a*b^3*c^3*d^2*g*m^2 + 3*a*b^3*c^3*e^2*g*l^2 - 3*a*b^3*c^3*f^2*g*k^2 - 3* \\
& a*b^4*c^2*d*h^2*l^2 - 6*a^2*b*c^4*d^2*g*m^2 - 6*a^2*b*c^4*e^2*g*l^2 + 6*a^2 \\
& *b*c^4*f^2*g*k^2 - a^2*b^3*c^2*d*h*l^3 - 4*a^2*b^3*c^2*e*g*l^3 + 3*a*b^2*c^ \\
& 4*d^2*h^2*m + 3*a*b^2*c^4*e^2*g^2*m - 3*a^2*b*c^4*g^2*h^2*j - a^2*b^2*c^3*g \\
& *h*j^3 - 6*a^3*b^2*c^2*d*h*m^3 - 6*a^3*b^2*c^2*e*g*m^3 - 3*a*b^3*c^3*f^2*h^ \\
& 2*l + 3*a*b^4*c^2*f^2*h*l^2 - 3*a^2*b*c^4*d^2*j*l^2 - 3*a^2*b*c^4*e^2*j*k^2 \\
& + 6*a^2*b*c^4*f^2*h^2*l - a^2*b^2*c^3*d*j^3*l - a^2*b^2*c^3*e*j^3*k + a^2* \\
& b^3*c^2*g*h*k^3 + 3*a^3*b*c^3*e*h^2*m^2 - 3*a^2*b^2*c^3*g*h^3*l + a^2*b^3*c^ \\
& ^2*d*k^3*l - 2*a^2*b^3*c^2*f*j*k^3 - 3*a^3*b*c^3*e*j^2*l^2 - 3*a^3*b*c^3*g* \\
& h^2*l^2 - 3*a^3*b*c^3*g*j^2*k^2 + 3*a^3*b^2*c^2*e*k*l^3 - 6*a^3*b^2*c^2*f*j \\
& *l^3 + 3*a*b^4*c^2*f^2*j^2*m - 6*a^2*b^3*c^2*f*j^3*m + 6*a^2*b^4*c*f*j^2*m^
\end{aligned}$$

$$\begin{aligned}
& 2 - 6a^3b^2c^3f^2jm^2 - 3a^3b^2c^3g^2j^2k^2 - 3a^3b^2c^3h^2j^2k^2 + \\
& 3a^3b^2c^3e^2j^2m^2 + 3a^3b^2c^3g^2k^2j^2 - 3a^3b^2c^3h^2j^2k^2 + 2a^3b^2c^2f^2k^3m - a^3b^2c^2g^2k^3j^2 - 3a^3b^2c^2j^3k^3m - 3a^4b^2c^2j^2k^2l^2 + 3a^4b^2c^2k^2j^2l^2m + a^5b^2c^2d^2e^2h^3 + a^5b^2c^2d^2g^3h^3 + 3a^5b^2c^2f^3g^3h^3 - 3b^2c^6d^2e^2f^2g^3 + 3a^5b^2c^2d^2f^3j^2 + 3a^5b^2c^2e^2f^3k^2 - 6a^5b^2c^2d^2e^2m^3 - 3b^2c^6d^2e^2f^2h^3 + 6a^5c^6d^2e^2f^2j^2 + 2a^5b^2c^2e^3f^2m + 2a^5b^2c^2e^3g^2j^2 - a^5b^2c^2e^3h^2k^2 + a^5b^2c^2d^2h^2j^2 + a^5b^2c^2e^2g^2k^2 - 6a^5c^6d^2e^2f^2k^2 - 6a^5c^6d^2e^2f^2j^2 + 6a^5c^6d^2e^2g^2k^2 - 6a^5c^6d^2e^2f^2g^2j^2 - 4a^5b^2c^2d^3j^2m + 2a^5b^2c^2d^3k^2j^2 - 3b^2c^6d^2e^2j^2m^2 + a^5b^2c^2k^2j^2m^3 - 3a^2b^2c^3d^2g^2m^2 + 6a^2b^2c^3d^2h^2j^2l^2 - 3a^2b^2c^3e^2h^2m^2 - 9a^2b^2c^3f^2h^2j^2l^2 - 3a^2b^2c^3g^2h^2k^2 + 3a^2b^3c^2g^2h^2j^2l^2 - 3a^2b^2c^3d^2k^2m^2 - 3a^2b^2c^3e^2k^2j^2l^2 + 3a^2b^2c^3g^2h^2j^2m + 3a^2b^2c^3d^2j^2l^2m + 3a^2b^2c^3e^2k^2j^2m + 3a^2b^2c^3f^2j^2m^2 + 6a^2b^3c^2f^2j^2m^2 - 9a^3b^2c^2f^2j^2m^2 + 3a^3b^2c^2h^2j^2l^2 - 3a^3b^2c^2h^2k^2j^2l^2 + 3a^3b^2c^2g^2j^2l^2m + 3a^3b^2c^2h^2k^2j^2m - 3a^5b^2c^2e^2f^2h^2 + 3a^5b^2c^4d^2e^2j^3 - 6a^5b^2c^5d^2e^2k^2 + 3a^5b^2c^5e^2g^2h^2 - a^5b^2c^4e^2g^2h^3 - 4a^5b^3c^3d^2e^2k^3 + 6a^2b^2c^4d^2e^2k^3 + 3a^5b^2c^5d^2g^2j^2 + 5a^5b^4c^2d^2e^2j^3 - 3a^5b^2c^5d^2h^2j^2 - 3a^5b^2c^5e^2g^2j^2 + a^5b^3c^3d^2h^2j^3 + a^5b^3c^3e^2g^2j^3 - 2a^2b^2c^4d^2h^2j^3 - 2a^2b^2c^4e^2g^2j^3 - 7a^3b^2c^3d^2e^2m^3 - 3a^5b^2c^5d^2g^2j^2 - 3a^5b^2c^5e^2f^2j^2 - 3a^5b^2c^4e^2g^3k^2 - a^5b^4c^2d^2h^2k^3 - a^5b^4c^2e^2g^2k^3 + 3a^5b^3c^3d^2h^3j^2 - 5a^2b^2c^4d^2h^3j^2 + a^2b^2c^4e^2h^3k^2 - 2a^2b^2c^4f^2h^3j^2 - 3a^3b^2c^3d^2h^3j^2 + 6a^3b^2c^3e^2g^2j^2 - 3b^2c^5d^2e^2f^2j^2 + 3b^3c^4d^2e^2f^2j^2 - 3a^5b^2c^4f^3g^2j^2 - 3a^5b^2c^4f^3h^2k^2 + 5a^2b^4c^2d^2h^2m^3 + 5a^2b^4c^2e^2g^2m^3 - 6a^2c^5d^2e^2g^2k^2 + 3b^2c^5d^2e^2f^2k^2 + 3b^2c^5d^2e^2g^2j^2 + 3a^2b^2c^4g^3h^2k^2 + a^3b^2c^3g^2h^2k^3 + 3b^2c^5d^2e^2f^2j^2 - 6b^2c^5d^2e^2g^2k^2 + 3b^2c^5d^2e^2h^2j^2 + 3b^3c^4d^2e^2g^2k^2 - 3b^4c^3d^2e^2g^2k^2 - a^2b^4c^2g^2h^2j^3 - 6a^2c^5d^2f^2h^2k^2 + 6a^2c^5e^2f^2h^2j^2 - 2a^3b^2c^3d^2k^3j^2 + 4a^3b^2c^3f^2j^2k^3 + 3b^3c^4d^2e^2f^2j^2m + 3b^5c^2d^2e^2f^2m^2 - 2a^5b^2c^4e^3j^2m + a^5b^2c^4e^3k^2j^2 - a^2b^4c^2e^2k^2j^2 + 2a^2b^4c^2f^2j^2l^3 - 6a^2c^5d^2f^2g^2m - 6a^2c^5e^2f^2g^2j^2 - 4a^3b^3c^2g^2h^2m^3 + 3a^4b^2c^2g^2h^2m^3 - 3b^3c^4d^2e^2g^2m + 6b^3c^4d^2e^2h^2j^2 - 3b^4c^3d^2e^2h^2j^2 + 3b^5c^2d^2e^2h^2j^2 - 6a^5b^3c^3f^3j^2m + 3a^5b^3c^3f^3k^2j^2 - 3a^5b^5c^2f^2j^2m^2 + 8a^2b^2c^4f^3j^2m - 7a^2b^2c^4f^3k^2j^2 + 12a^2c^5d^2f^2h^2m + 12a^2c^5e^2f^2g^2m - 6a^2c^5e^2f^2h^2j^2 - 6a^2c^5f^2g^2h^2j^2 + 4a^3b^2c^3f^2j^3m + 4a^3b^2c^3g^2j^3j^2 + 4a^3b^2c^3h^2j^3k^2 - 4a^3b^3c^2d^2j^2m^3 - 4a^3b^3c^2e^2k^2m^3 + 2a^3b^3c^2f^2j^2m^3 - 12a^3c^4d^2f^2h^2m^2 - 12a^3c^4e^2f^2g^2m^2 + 3a^4b^2c^2d^2j^2m^3 + 3a^4b^2c^2e^2k^2m^3 - 3b^3c^4d^2e^2j^2k^2 - 3b^3c^4d^2e^2h^2m - 6a^2c^5d^2f^2j^2j^2 - 6a^2c^5e^2f^2j^2k^2 - 6a^2c^5e^2f^2h^2m + 6a^2c^5e^2g^2h^2j^2 + 6a^3c^4d^2e^2j^2m^2 - 6a^3c^4e^2g^2h^2j^2 - 3b^3c^4d^2e^2j^2j^2 + 6a^2c^5d^2e^2k^2m + 6a^2c^5e^2f^2j^2j^2 + 3a^3b^2c^3h^3k^2j^2 - 2a^3b^3c^2f^2j^2m^3 + a^3b^3c^2h^2k^2j^2 - 6a^3c^4d^2f^2k^2j^2 - 6a^3c^4e^2f^2j^2j^2 + 4a^4b^2c^2f^2j^2l^3m + a^4b^2c^2h^2k^2j^2l^3 + 3b^5c^2d^2e^2j^2m + 6a^2c^5d^2e^2j^2m - 6a^2c^5d^2
\end{aligned}$$

$$\begin{aligned}
& ^2*f*k*m + 6*a^2*c^5*d^2*g*j*m - 6*a^2*c^5*d^2*g*k*1 + 6*a^3*c^4*d*f*k^2*m \\
& + 6*a^3*c^4*d*g*k^2*1 - 6*a^3*c^4*e*f*k^2*1 - 6*a^3*c^4*f*g*j*k^2 + 3*a^4*b \\
& ^2*c*g*1*m^3 + 3*a^4*b^2*c*h*k*m^3 + 3*b^4*c^3*d*e^2*k*m + 6*a^3*c^4*e*h*j^ \\
& ^2*1 + 3*b^4*c^3*d^2*e*1*m + 6*a^3*c^4*d*h^2*k*m - 6*a^3*c^4*e*h^2*j*m - 6*a \\
& ^3*c^4*f*h^2*j*1 - 2*a^4*b*c^2*j*k^3*m + 6*a^3*c^4*e*g^2*1*m + 6*a^3*c^4*f* \\
& g^2*k*m + 2*a^4*b^2*c*j*1^3*m - 12*a^3*c^4*f^2*g*1*m - 12*a^3*c^4*f^2*h*k*m \\
& - 6*a^4*c^3*e*h*1*m^2 + 12*a^4*c^3*f*g*1*m^2 + 12*a^4*c^3*f*h*k*m^2 - 6*a^ \\
& 4*c^3*g*h*j*m^2 + 6*a^3*c^4*f^2*j*k*1 - 6*a^4*c^3*d*j*1*m^2 - 6*a^4*c^3*e*j \\
& *k*m^2 - 6*a^4*c^3*f*h*1^2*m - 6*a^3*c^4*e^2*j*1*m + 6*a^4*c^3*d*k*1^2*m + \\
& 6*a^4*c^3*e*j*1^2*m + 6*a^4*c^3*e*k^2*1*m + 6*a^4*c^3*g*j*k^2*m + 6*a^4*c^3 \\
& *h^2*j*1*m + 6*a^5*c^2*j*k*1*m^2 + 6*a*b^2*c^4*d*e*g*k^2 - 3*a*b^2*c^4*d*f* \\
& h*j^2 - 3*a*b^2*c^4*e*f*g*j^2 - 15*a*b^3*c^3*d*e*f*m^2 + 15*a^2*b*c^4*d*e*f \\
& *m^2 + 3*a*b^2*c^4*d*e*h^2*1 + 3*a*b^2*c^4*d*f*h^2*k + 3*a*b^2*c^4*d*g*h^2* \\
& j - 9*a*b^3*c^3*d*e*h*1^2 + 9*a^2*b*c^4*d*e*h*1^2 - 3*a^2*b*c^4*d*f*g*1^2 - \\
& 3*a*b^2*c^4*d*g^2*h*k + 3*a*b^2*c^4*e*f*g^2*1 + 3*a*b^2*c^4*e*g^2*h*j + 3* \\
& a*b^3*c^3*d*g*h*k^2 - 3*a^2*b*c^4*d*g*h*k^2 - 3*a^2*b*c^4*e*f*h*k^2 - 6*a*b \\
& ^2*c^4*d*f^2*h*m - 6*a*b^2*c^4*e*f^2*g*m + 6*a*b^2*c^4*e*f^2*h*1 - 3*a*b^2*c \\
& ^4*f^2*g*h*j - 3*a*b^4*c^2*d*f*h*m^2 - 3*a*b^4*c^2*e*f*g*m^2 - 6*a^2*b*c^4 \\
& *d*f*j*k^2 + 9*a^2*b*c^4*f*g*h*j^2 - 3*a*b^2*c^4*d*f^2*j*1 - 3*a*b^2*c^4*e* \\
& f^2*j*k - 6*a*b^2*c^4*e^2*g*h*1 - 12*a*b^3*c^3*d*e*j^2*m - 3*a*b^3*c^3*d*g* \\
& h^2*m + 3*a*b^3*c^3*e*g*h^2*1 + 15*a*b^4*c^2*d*e*j*m^2 - 3*a*b^4*c^2*e*g*h* \\
& 1^2 + 3*a^2*b*c^4*d*e*j^2*m + 9*a^2*b*c^4*d*f*j^2*1 + 3*a^2*b*c^4*d*g*h^2*m \\
& + 9*a^2*b*c^4*e*f*j^2*k - 3*a^2*b*c^4*f*g*h^2*k - 9*a*b^2*c^4*d*e^2*k*m + \\
& 3*a*b^2*c^4*e^2*g*j*k - 3*a*b^3*c^3*d*h^2*j*k - 3*a*b^3*c^3*e*g^2*h*m + 6*a \\
& ^2*b*c^4*d*h^2*j*k + 3*a^2*b*c^4*e*g^2*h*m - 3*a^2*b*c^4*f*g^2*h*1 - 9*a*b^ \\
& 2*c^4*d^2*e*1*m - 6*a*b^2*c^4*d^2*g*j*m + 3*a*b^2*c^4*d^2*g*k*1 + 3*a*b^2*c \\
& ^4*d^2*h*j*1 - 3*a*b^3*c^3*e*g^2*j*1 + 3*a*b^3*c^3*f^2*g*h*m + 6*a^2*b*c^4* \\
& d*g^2*j*m + 6*a^2*b*c^4*e*g^2*j*1 - 6*a^2*b*c^4*f*g^2*j*k - 3*a^2*b*c^4*f^2 \\
& *g*h*m - 3*a^3*b*c^3*f*g*h*m^2 + 3*a*b^3*c^3*d*f^2*1*m + 3*a*b^3*c^3*e*f^2* \\
& k*m + 3*a*b^3*c^3*f^2*g*j*1 + 3*a*b^3*c^3*f^2*h*j*k - 3*a*b^4*c^2*d*h*j^2*m \\
& - 3*a*b^4*c^2*e*g*j^2*m - 3*a^2*b*c^4*d*f^2*1*m - 3*a^2*b*c^4*e*f^2*k*m - \\
& 3*a^3*b*c^3*d*f*1*m^2 + 6*a^3*b*c^3*d*g*k*m^2 + 6*a^3*b*c^3*d*h*j*m^2 - 3*a \\
& ^3*b*c^3*e*f*k*m^2 + 6*a^3*b*c^3*e*g*j*m^2 - 3*a*b^3*c^3*e^2*g*k*m + 3*a*b^ \\
& 4*c^2*d*h^2*k*m + 3*a^2*b*c^4*e^2*g*k*m + 6*a^2*b*c^4*e^2*h*j*m + 3*a^2*b*c \\
& ^4*e^2*h*k*1 + 3*a^3*b*c^3*d*g*1^2*m - 6*a^3*b*c^3*e*f*1^2*m - 3*a^3*b*c^3* \\
& e*h*k*1^2 - 3*a^3*b*c^3*f*g*k*1^2 + 12*a^3*b*c^3*f*h*j*1^2 - 3*a*b^3*c^3*d^ \\
& 2*h*1*m + 3*a*b^4*c^2*e*g^2*1*m + 3*a^2*b*c^4*d^2*h*1*m + 6*a^3*b*c^3*d*j*k \\
& *1^2 + 3*a^3*b*c^3*e*h*k^2*m - 6*a^3*b*c^3*f*g*k^2*m - 3*a^3*b*c^3*f*h*k^2* \\
& 1 - 3*a*b^4*c^2*f^2*g*1*m - 3*a*b^4*c^2*f^2*h*k*m + 6*a^2*b*c^4*d^2*j*k*m - \\
& 3*a^2*b^4*c*g*h*j*m^2 + 6*a^3*b*c^3*e*j*k^2*1 - 3*a^3*b*c^3*g*h*j^2*m - 3* \\
& a*b^4*c^2*f^2*j*k*1 - 3*a^2*b^4*c*d*j*1*m^2 - 3*a^2*b^4*c*e*j*k*m^2 - 3*a^3 \\
& *b*c^3*d*j^2*1*m - 3*a^3*b*c^3*e*j^2*k*m - 6*a^3*b*c^3*f*h^2*1*m - 9*a^3*b* \\
& c^3*f*j^2*k*1 + 3*a^3*b*c^3*g*h^2*k*m + 3*a^2*b^4*c*d*k*1^2*m + 3*a^3*b*c^3 \\
& *g^2*h*1*m + 3*a^2*b^4*c*e*k^2*1*m + 15*a^3*b*c^3*f^2*k*1*m + 6*a^3*b^3*c*f \\
& *k*1*m^2 + 3*a^3*b^3*c*g*j*1*m^2 + 3*a^3*b^3*c*h*j*k*m^2 - 9*a^4*b*c^2*f*k*
\end{aligned}$$

$$\begin{aligned}
& 1*m^2 - 3*a^3*b^3*c*g*k^1^2*m + 3*a^4*b*c^2*g*k^1^2*m - 6*a^4*b*c^2*h*j^1^2 \\
& *m - 3*a^3*b^3*c*h*k^2*1*m + 3*a^4*b*c^2*h*k^2*1*m + 3*a^3*b^3*c*j^2*k^1*m \\
& + 3*a^4*b*c^2*j^2*k^1*m - 9*a^4*b^2*c*j*k^1*m^2 + 3*b^6*c*d*e*k^1*m + 12*a^2 \\
& *b^2*c^3*d*f*h*m^2 + 12*a^2*b^2*c^3*e*f*g*m^2 - 15*a^2*b^2*c^3*d*e*j*m^2 + \\
& 6*a^2*b^2*c^3*e*g*h^1^2 + 3*a^2*b^2*c^3*d*f*k^1^2 + 3*a^2*b^2*c^3*d*g*j^1^2 \\
& + 6*a^2*b^2*c^3*e*f*j^1^2 - 3*a^2*b^2*c^3*d*g*k^2*1 + 3*a^2*b^2*c^3*e*f*k \\
& ^2*1 + 3*a^2*b^2*c^3*e*h*j*k^2 + 6*a^2*b^2*c^3*f*g*j*k^2 + 3*a^2*b^3*c^2*f* \\
& g*h*m^2 + 9*a^2*b^2*c^3*d*h*j^2*m + 9*a^2*b^2*c^3*e*g*j^2*m - 6*a^2*b^2*c^3 \\
& *f*g*j^2*1 - 6*a^2*b^2*c^3*f*h*j^2*k + 3*a^2*b^3*c^2*d*f*1*m^2 - 12*a^2*b^3 \\
& *c^2*d*h*j*m^2 + 3*a^2*b^3*c^2*e*f*k*m^2 - 12*a^2*b^3*c^2*e*g*j*m^2 - 9*a^2 \\
& *b^2*c^3*d*h^2*k*m - 3*a^2*b^2*c^3*e*h^2*k*1 + 6*a^2*b^2*c^3*f*h^2*j*1 + 3* \\
& a^2*b^2*c^3*g*h^2*j*k - 3*a^2*b^3*c^2*d*g^1^2*m + 3*a^2*b^3*c^2*e*h*k^1^2 - \\
& 6*a^2*b^3*c^2*f*h*j^1^2 - 9*a^2*b^2*c^3*e*g^2*1*m + 3*a^2*b^2*c^3*g^2*h*j \\
& ^1 - 3*a^2*b^3*c^2*d*j*k^1^2 - 3*a^2*b^3*c^2*e*h*k^2*m + 9*a^2*b^2*c^3*f^2*g \\
& *1*m + 9*a^2*b^2*c^3*f^2*h*k*m - 3*a^2*b^3*c^2*e*j*k^2*1 + 3*a^2*b^3*c^2*g* \\
& h*j^2*m - 9*a^3*b^2*c^2*f*g*1*m^2 - 9*a^3*b^2*c^2*f*h*k*m^2 + 9*a^3*b^2*c^2 \\
& *g*h*j*m^2 + 3*a^2*b^2*c^3*f^2*j*k*1 + 3*a^2*b^3*c^2*d*j^2*1*m + 3*a^2*b^3* \\
& c^2*e*j^2*k*m + 6*a^2*b^3*c^2*f*j^2*k*1 - 3*a^2*b^3*c^2*g*h^2*k*m + 9*a^3*b \\
& ^2*c^2*d*j^1*m^2 + 9*a^3*b^2*c^2*e*j*k*m^2 + 6*a^3*b^2*c^2*f*h^1^2*m - 3*a^ \\
& 2*b^3*c^2*g^2*h^1*m - 9*a^3*b^2*c^2*d*k^1^2*m + 3*a^3*b^2*c^2*g*j*k^1^2 - 9 \\
& *a^3*b^2*c^2*e*k^2*1*m + 3*a^3*b^2*c^2*h*j*k^2*1 - 12*a^2*b^3*c^2*f^2*k*1*m \\
& - 6*a^3*b^2*c^2*g*j^2*1*m - 6*a^3*b^2*c^2*h*j^2*k*m - 9*a*b*c^5*d*e*f*j^2 \\
& - 3*a*b*c^5*d*f*g*h^2 - 3*a*b*c^5*e*f*g^2*h - 9*a*b*c^5*d*e*f^2*m - 6*a*b*c \\
& ^5*d*f^2*g*k + 6*a*b*c^5*d*f^2*h*j + 6*a*b*c^5*e*f^2*g*j + 3*a*b*c^5*d*e^2* \\
& g*m - 9*a*b*c^5*d*e^2*h*1 - 3*a*b*c^5*e^2*f*g*k + 3*b^2*c^5*d*e*f*g*h + 6*a \\
& *b*c^5*d*e^2*j*k + 3*a*b*c^5*d^2*e*h*m + 6*a*b*c^5*d^2*f*g*m - 3*a*b*c^5*d^ \\
& 2*f*h*1 + 3*a*b*c^5*d^2*g*h*k + 6*a*b*c^5*d^2*e*j*1 - 3*b^3*c^4*d*e*f*g*1 - \\
& 3*b^3*c^4*d*e*f*h*k - 3*b^3*c^4*d*e*g*h*j + 3*a*b^5*c*d*h*j*m^2 + 3*a*b^5* \\
& c*e*g*j*m^2 - 12*a^2*c^5*d*e*f*j*m + 12*a^2*c^5*d*e*f*k*1 + 12*a^2*c^5*d*f* \\
& g*j*k + 3*b^4*c^3*d*e*g*h*m - 6*b^4*c^3*d*e*f*j*m + 3*b^4*c^3*d*e*f*k*1 + 3 \\
& *b^4*c^3*d*e*g*j*1 + 3*b^4*c^3*d*e*h*j*k - 3*b^5*c^2*d*e*g*1*m - 3*b^5*c^2* \\
& d*e*h*k*m - 3*b^5*c^2*d*e*j*k*1 + 3*a*b^5*c*f^2*k*1*m + 12*a^3*c^4*e*f*h*1* \\
& m + 12*a^3*c^4*f*g*h*j*m - 12*a^3*c^4*d*e*k*1*m + 12*a^3*c^4*d*f*j*1*m - 12 \\
& *a^3*c^4*d*g*j*k*m + 12*a^3*c^4*e*f*j*k*m - 12*a^4*c^3*f*j*k^1*m - 3*a*b^2* \\
& c^4*d*e*g*h*m + 3*a*b^2*c^4*d*f*g*h*1 + 3*a*b^2*c^4*e*f*g*h*k + 24*a*b^2*c^ \\
& 4*d*e*f*j*m - 12*a*b^2*c^4*d*e*f*k*1 - 6*a*b^2*c^4*d*e*g*j*1 - 6*a*b^2*c^4* \\
& d*e*h*j*k + 9*a*b^3*c^3*d*e*g*1*m + 9*a*b^3*c^3*d*e*h*k*m + 6*a*b^3*c^3*d*f \\
& *h*j*m - 3*a*b^3*c^3*d*f*h*k*1 - 3*a*b^3*c^3*d*g*h*j*1 + 6*a*b^3*c^3*e*f*g* \\
& j*m - 3*a*b^3*c^3*e*f*g*k*1 - 3*a*b^3*c^3*e*g*h*j*k - 6*a^2*b*c^4*d*e*g*1*m \\
& - 6*a^2*b*c^4*d*e*h*k*m - 12*a^2*b*c^4*d*f*h*j*m + 6*a^2*b*c^4*d*f*h*k*1 - \\
& 12*a^2*b*c^4*e*f*g*j*m + 6*a^2*b*c^4*e*f*g*k*1 - 12*a^2*b*c^4*e*f*h*j*1 + \\
& 12*a*b^3*c^3*d*e*j*k*1 - 12*a^2*b*c^4*d*e*j*k*1 + 3*a*b^4*c^2*d*g*h*1*m + 3 \\
& *a*b^4*c^2*e*g*h*k*m - 15*a*b^4*c^2*d*e*k*1*m + 3*a*b^4*c^2*d*h*j*k*1 + 3*a \\
& *b^4*c^2*e*g*j*k*1 - 6*a^3*b*c^3*d*h*k*1*m - 6*a^3*b*c^3*e*g*k*1*m + 3*a^2* \\
& b^4*c*g*h*k*1*m - 6*a^2*b^4*c*f*j*k*1*m - 3*a^2*b^2*c^3*d*g*h*1*m - 3*a^2*b
\end{aligned}$$

$$\begin{aligned}
& ^2c^3*eg*hk*m - 12*a^2*b^2*c^3*f*g*h*j*m + 3*a^2*b^2*c^3*f*g*h*k*1 + 24* \\
& a^2*b^2*c^3*d*e*k*1*m - 12*a^2*b^2*c^3*d*f*j*1*m - 6*a^2*b^2*c^3*d*h*j*k*1 \\
& - 12*a^2*b^2*c^3*e*f*j*k*m - 6*a^2*b^2*c^3*eg*j*k*1 + 9*a^2*b^3*c^2*d*h*k* \\
& 1*m + 9*a^2*b^3*c^2*eg*k*1*m + 6*a^2*b^3*c^2*f*g*j*1*m + 6*a^2*b^3*c^2*f*h \\
& *j*k*m - 3*a^2*b^3*c^2*g*h*j*k*1 - 3*a^3*b^2*c^2*g*h*k*1*m + 12*a^3*b^2*c^2 \\
& *f*j*k*1*m + 6*a*b*c^5*d*e*f*g*1 + 6*a*b*c^5*d*e*f*h*k - 3*a*b^5*c*d*h*k*1* \\
& m - 3*a*b^5*c*eg*k*1*m)/c^3 - \text{root}(34992*a^4*b^2*c^8*z^6 - 8748*a^3*b^4*c^ \\
& 7*z^6 + 729*a^2*b^6*c^6*z^6 - 46656*a^5*c^9*z^6 + 34992*a^4*b^3*c^6*m*z^5 - \\
& 8748*a^3*b^5*c^5*m*z^5 + 729*a^2*b^7*c^4*m*z^5 - 34992*a^4*b^2*c^7*j*z^5 + \\
& 8748*a^3*b^4*c^6*j*z^5 - 729*a^2*b^6*c^5*j*z^5 - 46656*a^5*b*c^7*m*z^5 + 4 \\
& 6656*a^5*c^8*j*z^5 + 34992*a^5*b*c^6*j*m*z^4 - 11664*a^5*b*c^6*k*1*z^4 + 38 \\
& 88*a^4*b*c^7*f*j*z^4 + 3888*a^4*b*c^7*e*k*z^4 + 3888*a^4*b*c^7*d*1*z^4 + 38 \\
& 88*a^4*b*c^7*g*h*z^4 + 3888*a^3*b*c^8*d*e*z^4 + 243*a*b^5*c^6*d*e*z^4 - 252 \\
& 72*a^4*b^3*c^5*j*m*z^4 + 9720*a^4*b^3*c^5*k*1*z^4 + 6075*a^3*b^5*c^4*j*m*z^ \\
& 4 - 2673*a^3*b^5*c^4*k*1*z^4 - 486*a^2*b^7*c^3*j*m*z^4 + 243*a^2*b^7*c^3*k* \\
& 1*z^4 - 7776*a^4*b^2*c^6*h*k*z^4 - 7776*a^4*b^2*c^6*g*1*z^4 - 7776*a^4*b^2* \\
& c^6*f*m*z^4 + 2430*a^3*b^4*c^5*h*k*z^4 + 2430*a^3*b^4*c^5*g*1*z^4 + 2430*a^ \\
& 3*b^4*c^5*f*m*z^4 - 243*a^2*b^6*c^4*h*k*z^4 - 243*a^2*b^6*c^4*g*1*z^4 - 243 \\
& *a^2*b^6*c^4*f*m*z^4 - 1944*a^3*b^3*c^6*f*j*z^4 - 1944*a^3*b^3*c^6*e*k*z^4 \\
& - 1944*a^3*b^3*c^6*d*1*z^4 + 243*a^2*b^5*c^5*f*j*z^4 + 243*a^2*b^5*c^5*e*k* \\
& z^4 + 243*a^2*b^5*c^5*d*1*z^4 - 1944*a^3*b^3*c^6*g*h*z^4 + 243*a^2*b^5*c^5* \\
& g*h*z^4 + 3888*a^3*b^2*c^7*eg*z^4 + 3888*a^3*b^2*c^7*d*h*z^4 - 486*a^2*b^4 \\
& *c^6*eg*z^4 - 486*a^2*b^4*c^6*d*h*z^4 - 1944*a^2*b^3*c^7*d*e*z^4 + 7776*a^ \\
& 5*c^7*h*k*z^4 + 7776*a^5*c^7*g*1*z^4 + 7776*a^5*c^7*f*m*z^4 - 7776*a^4*c^8* \\
& eg*z^4 - 7776*a^4*c^8*d*h*z^4 - 13608*a^5*b^2*c^5*m^2*z^4 + 11421*a^4*b^4* \\
& c^4*m^2*z^4 - 2916*a^3*b^6*c^3*m^2*z^4 + 243*a^2*b^8*c^2*m^2*z^4 + 13608*a^ \\
& 4*b^2*c^6*j^2*z^4 - 3159*a^3*b^4*c^5*j^2*z^4 + 243*a^2*b^6*c^4*j^2*z^4 + 19 \\
& 44*a^3*b^2*c^7*f^2*z^4 - 243*a^2*b^4*c^6*f^2*z^4 - 3888*a^6*c^6*m^2*z^4 - 1 \\
& 9440*a^5*c^7*j^2*z^4 - 3888*a^4*c^8*f^2*z^4 + 3078*a^4*b^4*c^3*k*1*m*z^3 - \\
& 2592*a^5*b^2*c^4*k*1*m*z^3 - 891*a^3*b^6*c^2*k*1*m*z^3 - 4536*a^4*b^3*c^4*j \\
& *k*1*z^3 + 1053*a^3*b^5*c^3*j*k*1*z^3 - 81*a^2*b^7*c^2*j*k*1*z^3 - 2592*a^4 \\
& *b^3*c^4*h*k*m*z^3 - 2592*a^4*b^3*c^4*g*1*m*z^3 + 810*a^3*b^5*c^3*h*k*m*z^3 \\
& + 810*a^3*b^5*c^3*g*1*m*z^3 - 81*a^2*b^7*c^2*h*k*m*z^3 - 81*a^2*b^7*c^2*g* \\
& 1*m*z^3 + 7776*a^4*b^2*c^5*f*j*m*z^3 + 3888*a^4*b^2*c^5*h*j*k*z^3 + 3888*a^ \\
& 4*b^2*c^5*g*j*1*z^3 - 3888*a^4*b^2*c^5*f*k*1*z^3 - 2916*a^3*b^4*c^4*f*j*m*z \\
& ^3 + 1458*a^3*b^4*c^4*f*k*1*z^3 - 972*a^3*b^4*c^4*h*j*k*z^3 - 972*a^3*b^4*c \\
& ^4*g*j*1*z^3 - 486*a^3*b^4*c^4*e*k*m*z^3 - 486*a^3*b^4*c^4*d*1*m*z^3 + 324* \\
& a^2*b^6*c^3*f*j*m*z^3 - 162*a^2*b^6*c^3*f*k*1*z^3 + 81*a^2*b^6*c^3*h*j*k*z^ \\
& 3 + 81*a^2*b^6*c^3*g*j*1*z^3 + 81*a^2*b^6*c^3*e*k*m*z^3 + 81*a^2*b^6*c^3*d* \\
& 1*m*z^3 - 486*a^3*b^4*c^4*g*h*m*z^3 + 81*a^2*b^6*c^3*g*h*m*z^3 + 648*a^3*b^ \\
& 3*c^5*e*j*k*z^3 + 648*a^3*b^3*c^5*d*j*1*z^3 - 81*a^2*b^5*c^4*e*j*k*z^3 - 81 \\
& *a^2*b^5*c^4*d*j*1*z^3 + 2592*a^3*b^3*c^5*eg*m*z^3 + 2592*a^3*b^3*c^5*d*h* \\
& m*z^3 - 1296*a^3*b^3*c^5*f*h*k*z^3 - 1296*a^3*b^3*c^5*f*g*1*z^3 - 1296*a^3* \\
& b^3*c^5*e*h*1*z^3 + 648*a^3*b^3*c^5*g*h*j*z^3 - 324*a^2*b^5*c^4*eg*m*z^3 - \\
& 324*a^2*b^5*c^4*d*h*m*z^3 + 162*a^2*b^5*c^4*f*h*k*z^3 + 162*a^2*b^5*c^4*f*
\end{aligned}$$

$$\begin{aligned}
& g^1z^3 + 162a^2b^5c^4e^h1^1z^3 - 81a^2b^5c^4g^h^1j^1z^3 + 5184a^3b^2c^6d^e^m^1z^3 - 2592a^3b^2c^6e^g^j^1z^3 - 2592a^3b^2c^6d^h^1j^1z^3 \\
& - 2106a^2b^4c^5d^e^m^1z^3 + 1296a^3b^2c^6e^f^k^1z^3 + 1296a^3b^2c^6d^g^k^1z^3 + 1296a^3b^2c^6d^f^1z^3 + 324a^2b^4c^5e^g^j^1z^3 + 324a^2b^4c^5d^h^1j^1z^3 \\
& - 162a^2b^4c^5e^f^k^1z^3 - 162a^2b^4c^5d^g^k^1z^3 - 162a^2b^4c^5d^f^1z^3 + 1296a^3b^2c^6f^g^h^1z^3 - 162a^2b^4c^5f^g^h^1z^3 + 1944a^2b^3c^6d^e^j^1z^3 \\
& - 1296a^2b^2c^7d^e^f^1z^3 + 81a^2b^8c^k^1m^1z^3 + 6480a^5b^c^5j^k^1z^3 + 2592a^5b^c^5h^k^1m^1z^3 + 2592a^5b^c^5g^1m^1z^3 - 1296a^4b^c^6e^j^k^1z^3 \\
& - 1296a^4b^c^6d^j^1z^3 - 5184a^4b^c^6e^g^m^1z^3 - 5184a^4b^c^6d^h^1m^1z^3 + 2592a^4b^c^6f^h^1k^1z^3 + 2592a^4b^c^6f^g^1z^3 + 2592a^4b^c^6e^h^1z^3 \\
& - 1296a^4b^c^6g^h^1j^1z^3 + 243a^2b^6c^4d^e^m^1z^3 - 3888a^3b^c^7d^e^j^1z^3 - 243a^2b^5c^5d^e^j^1z^3 + 162a^2b^4c^6d^e^f^1z^3 - 2592a^6c^5k^1m^1z^3 - 5184a^5c^6h^1j^k^1z^3 \\
& - 5184a^5c^6g^j^1z^3 - 5184a^5c^6f^j^1m^1z^3 + 2592a^5c^6f^k^1z^3 + 2592a^5c^6e^k^1m^1z^3 + 2592a^5c^6d^1m^1z^3 + 2592a^5c^6g^h^1m^1z^3 + 5184a^4c^7e^g^j^1z^3 \\
& + 5184a^4c^7d^h^1j^1z^3 - 2592a^4c^7e^f^k^1z^3 - 2592a^4c^7d^g^k^1z^3 - 2592a^4c^7d^f^1z^3 - 2592a^4c^7d^e^m^1z^3 - 2592a^4c^7f^g^h^1z^3 + 2592a^3c^8d^e^f^1z^3 \\
& + 6480a^5b^2c^4j^m^2z^3 + 6480a^4b^3c^4j^2m^1z^3 - 5022a^4b^4c^3j^m^2z^3 - 1296a^3b^5c^3j^2m^1z^3 + 1134a^3b^6c^2j^m^2z^3 + 81a^2b^7c^2j^2m^1z^3 \\
& + 2592a^4b^3c^4h^1^2z^3 - 1944a^4b^2c^5h^2^1z^3 - 810a^3b^5c^3h^1^2z^3 + 729a^3b^4c^4h^2^1z^3 + 81a^2b^7c^2h^1^2z^3 - 81a^2b^6c^3h^2^1z^3 - 5184a^4b^3c^4f^m^2z^3 \\
& + 1620a^3b^5c^3f^m^2z^3 + 1296a^3b^3c^5f^2m^1z^3 - 162a^2b^7c^2f^m^2z^3 - 162a^2b^5c^4f^2m^1z^3 - 1944a^4b^2c^5g^k^2z^3 + 729a^3b^4c^4g^k^2z^3 - 648a^3b^3c^5g^2k^1z^3 \\
& - 81a^2b^6c^3g^k^2z^3 + 81a^2b^5c^4g^2k^1z^3 - 1944a^4b^2c^5e^1^2z^3 + 729a^3b^4c^4e^1^2z^3 + 648a^3b^2c^6e^2^1z^3 - 81a^2b^6c^3e^1^2z^3 - 81a^2b^4c^5e^2^1z^3 \\
& + 1296a^3b^3c^5f^j^2z^3 - 1296a^3b^2c^6f^2j^1z^3 - 162a^2b^5c^4f^j^2z^3 + 162a^2b^4c^5f^2j^1z^3 - 648a^3b^3c^5d^k^2z^3 + 81a^2b^5c^4d^k^2z^3 + 648a^3b^2c^6e^h^2z^3 \\
& - 81a^2b^4c^5e^h^2z^3 - 648a^2b^2c^7d^2g^z^3 - 10368a^5b^c^5j^2m^1z^3 - 81a^2b^8c^j^m^2z^3 - 2592a^5b^c^5h^1^2z^3 + 5184a^5b^c^5f^m^2z^3 - 2592a^4b^c^6f^2m^1z^3 \\
& + 1296a^4b^c^6g^2k^1z^3 - 2592a^4b^c^6f^j^2z^3 + 1296a^4b^c^6d^k^2z^3 + 81a^2b^4c^6d^2g^z^3 + 2592a^6c^5j^m^2z^3 + 1296a^5c^6h^2^1z^3 + 1296a^5c^6g^k^2z^3 \\
& + 1296a^5c^6e^1^2z^3 - 1296a^4c^7e^2^1z^3 + 2592a^4c^7f^2j^1z^3 - 2592a^6b^c^4m^3z^3 - 324a^3b^7c^m^3z^3 - 27a^2b^8c^1^3z^3 - 1296a^4c^7e^h^2z^3 - 864a^5b^c^5k^3z^3 \\
& + 1296a^3c^8d^2g^z^3 + 432a^4b^c^6h^3z^3 + 27a^2b^4c^6e^3z^3 - 432a^2b^c^8d^3z^3 + 216a^2b^3c^7d^3z^3 + 1134a^4b^5c^2m^3z^3 - 432a^5b^3c^3m^3z^3 + 1512a^5b^2c^4l^3z^3 - 1107a^4b^4c^3l^3z^3 \\
& + 297a^3b^6c^2l^3z^3 + 864a^4b^3c^4k^3z^3 - 270a^3b^5c^3k^3z^3 + 27a^2b^7c^2k^3z^3 - 2592a^4b^2c^5j^3z^3 + 486a^3b^4c^4j^3z^3 - 27a^2b^6c^3j^3z^3 - 216a^3b^3c^5h^3z^3 \\
& + 27a^2b^5c^4h^3z^3 + 216a^3b^2c^6g^3z^3 - 27a^2b^4c^5g
\end{aligned}$$

$$\begin{aligned}
& ^3z^3 - 216a^2b^2c^7e^3z^3 - 432a^6c^5l^3z^3 + 27a^2b^9m^3z^3 \\
& + 4320a^5c^6j^3z^3 - 432a^4c^7g^3z^3 + 432a^3c^8e^3z^3 - 27b^5c^6d^3z^3 + 81a^3b^6c^*jk^*l^*m^*z^2 - 1296a^5b^*c^4*h^*j^*k^*m^*z^2 - 129 \\
& 6a^5b^*c^4*g^*j^*l^*m^*z^2 + 1296a^5b^*c^4*f^*k^*l^*m^*z^2 - 81a^2b^7c^*f^*k^*l^*m^*z^2 + 2592a^4b^*c^5*e^*g^*j^*m^*z^2 + 2592a^4b^*c^5*d^*h^*j^*m^*z^2 - 1296a^4b^* \\
& c^5*f^*h^*j^*k^*z^2 - 1296a^4b^*c^5*f^*g^*j^*l^*z^2 - 1296a^4b^*c^5*e^*f^*k^*m^*z^2 \\
& - 1296a^4b^*c^5*d^*f^*l^*m^*z^2 - 648a^4b^*c^5*e^*h^*j^*l^*z^2 - 648a^4b^*c^5*e^* \\
& g^*k^*l^*z^2 - 648a^4b^*c^5*d^*h^*k^*l^*z^2 - 648a^4b^*c^5*d^*g^*k^*m^*z^2 - 1296a^4 \\
& b^*c^5*f^*g^*h^*m^*z^2 - 162a^*b^6*c^3*d^*e^*j^*m^*z^2 + 81a^*b^6*c^3*d^*e^*k^*l^*z^2 \\
& + 1296a^3b^*c^6*d^*e^*f^*m^*z^2 - 648a^3b^*c^6*d^*f^*g^*k^*z^2 - 648a^3b^*c^6*d^* \\
& e^*h^*k^*z^2 - 648a^3b^*c^6*d^*e^*g^*l^*z^2 - 81a^*b^5*c^4*d^*e^*h^*k^*z^2 - 81a^*b^5 \\
& c^4*d^*e^*g^*l^*z^2 + 81a^*b^5*c^4*d^*e^*f^*m^*z^2 - 81a^*b^4*c^5*d^*e^*f^*j^*z^2 + 81 \\
& a^*b^4*c^5*d^*e^*g^*h^*z^2 + 648a^5b^2*c^3*j^*k^*l^*m^*z^2 - 567a^4b^4*c^2*j^*k^* \\
& l^*m^*z^2 - 1944a^4b^3*c^3*f^*k^*l^*m^*z^2 + 729a^3b^5*c^2*f^*k^*l^*m^*z^2 + 648* \\
& a^4b^3*c^3*h^*j^*k^*m^*z^2 + 648a^4b^3*c^3*g^*j^*l^*m^*z^2 - 81a^3b^5*c^2*h^*j^* \\
& k^*m^*z^2 - 81a^3b^5*c^2*g^*j^*l^*m^*z^2 + 1944a^4b^2*c^4*f^*j^*k^*l^*z^2 - 729a^ \\
& ^3b^4*c^3*f^*j^*k^*l^*z^2 + 648a^4b^2*c^4*e^*j^*k^*m^*z^2 + 648a^4b^2*c^4*d^*j^* \\
& l^*m^*z^2 - 81a^3b^4*c^3*e^*j^*k^*m^*z^2 - 81a^3b^4*c^3*d^*j^*l^*m^*z^2 + 81a^2* \\
& b^6*c^2*f^*j^*k^*l^*z^2 + 1296a^4b^2*c^4*f^*h^*k^*m^*z^2 + 1296a^4b^2*c^4*f^*g^*l^ \\
& m^*z^2 + 648a^4b^2*c^4*g^*h^*j^*m^*z^2 - 648a^3b^4*c^3*f^*h^*k^*m^*z^2 - 648a^ \\
& 3b^4*c^3*f^*g^*l^*m^*z^2 - 324a^4b^2*c^4*g^*h^*k^*l^*z^2 - 324a^4b^2*c^4*e^*h^*l^ \\
& m^*z^2 + 81a^3b^4*c^3*g^*h^*k^*l^*z^2 - 81a^3b^4*c^3*g^*h^*j^*m^*z^2 + 81a^2*b^ \\
& ^6*c^2*f^*h^*k^*m^*z^2 + 81a^2*b^6*c^2*f^*g^*l^*m^*z^2 - 1296a^3b^3*c^4*e^*g^*j^*m^* \\
& z^2 - 1296a^3b^3*c^4*d^*h^*j^*m^*z^2 + 648a^3b^3*c^4*f^*h^*j^*k^*z^2 + 648a^3* \\
& b^3*c^4*f^*g^*j^*l^*z^2 + 648a^3b^3*c^4*e^*f^*k^*m^*z^2 + 648a^3b^3*c^4*d^*f^*l^*m^ \\
& *z^2 + 486a^3b^3*c^4*e^*g^*k^*l^*z^2 + 486a^3b^3*c^4*d^*h^*k^*l^*z^2 + 162a^3* \\
& b^3*c^4*e^*h^*j^*l^*z^2 + 162a^3b^3*c^4*d^*g^*k^*m^*z^2 + 162a^2*b^5*c^3*e^*g^*j^*m^ \\
& *z^2 + 162a^2*b^5*c^3*d^*h^*j^*m^*z^2 - 81a^2*b^5*c^3*f^*h^*j^*k^*z^2 - 81a^2*b^ \\
& 5*c^3*f^*g^*j^*l^*z^2 - 81a^2*b^5*c^3*e^*g^*k^*l^*z^2 - 81a^2*b^5*c^3*e^*f^*k^*m^*z^2 \\
& - 81a^2*b^5*c^3*d^*h^*k^*l^*z^2 - 81a^2*b^5*c^3*d^*f^*l^*m^*z^2 + 648a^3b^3*c^ \\
& 4*f^*g^*h^*m^*z^2 - 81a^2*b^5*c^3*f^*g^*h^*m^*z^2 - 3240a^3b^2*c^5*d^*e^*j^*m^*z^2 + \\
& 1620a^3b^2*c^5*d^*e^*k^*l^*z^2 + 1377a^2*b^4*c^4*d^*e^*j^*m^*z^2 - 648a^3b^2* \\
& c^5*e^*f^*j^*k^*z^2 - 648a^3b^2*c^5*d^*f^*j^*l^*z^2 - 648a^2*b^4*c^4*d^*e^*k^*l^*z^2 \\
& - 324a^3b^2*c^5*d^*g^*j^*k^*z^2 + 81a^2*b^4*c^4*e^*f^*j^*k^*z^2 + 81a^2*b^4*c^ \\
& 4*d^*f^*j^*l^*z^2 + 972a^3b^2*c^5*e^*f^*h^*l^*z^2 - 648a^3b^2*c^5*f^*g^*h^*j^*z^2 - \\
& 324a^3b^2*c^5*e^*g^*h^*k^*z^2 - 324a^3b^2*c^5*d^*g^*h^*l^*z^2 - 162a^2*b^4*c^ \\
& 4*e^*f^*h^*l^*z^2 + 81a^2*b^4*c^4*f^*g^*h^*j^*z^2 + 81a^2*b^4*c^4*e^*g^*h^*k^*z^2 + 8 \\
& 1a^2*b^4*c^4*d^*g^*h^*l^*z^2 - 648a^2*b^3*c^5*d^*e^*f^*m^*z^2 + 486a^2*b^3*c^5*d^ \\
& *e^*h^*k^*z^2 + 486a^2*b^3*c^5*d^*e^*g^*l^*z^2 + 162a^2*b^3*c^5*d^*f^*g^*k^*z^2 + 64 \\
& 8a^2*b^2*c^6*d^*e^*f^*j^*z^2 - 324a^2*b^2*c^6*d^*e^*g^*h^*z^2 - 1296a^6b^*c^3*k^* \\
& l^*m^2*z^2 - 81a^4b^5*c^*k^*l^*m^2*z^2 - 1296a^5b^*c^4*j^2*k^*l^*z^2 - 324a^5 \\
& b^*c^4*h^2*l^*m^*z^2 + 324a^5b^*c^4*h^*k^2*l^*z^2 - 324a^5b^*c^4*g^*k^2*m^*z^2 \\
& + 972a^5b^*c^4*h^*j^*l^2*z^2 + 324a^5b^*c^4*g^*k^*l^2*z^2 - 324a^5b^*c^4*e^*l^ \\
& ^2*m^*z^2 - 324a^4b^*c^5*e^2*l^*m^*z^2 - 1944a^5b^*c^4*f^*j^*m^2*z^2 + 1296a^ \\
& 5b^*c^4*e^*k^*m^2*z^2 + 1296a^5b^*c^4*d^*l^*m^2*z^2 + 648a^4b^*c^5*f^2*j^*m^*z^
\end{aligned}$$

$$\begin{aligned}
& 2 + 81a^2b^7c^5f^2j^2m^2z^2 + 1296a^5b^4c^4g^2h^2m^2z^2 - 324a^4b^5c^5g^2j^2k^2z^2 + 324a^4b^5c^5g^2h^2k^2z^2 + 972a^4b^5c^5f^2h^2l^2z^2 + 324a^4b^5c^5g^2h^2k^2z^2 - 324a^4b^5c^5e^2h^2m^2z^2 - 324a^4b^5c^5d^2j^2k^2z^2 - 324a^3b^6c^6d^2j^2k^2z^2 + 972a^4b^5c^5f^2g^2k^2z^2 + 972a^3b^6c^6d^2g^2m^2z^2 + 324a^4b^5c^5e^2h^2k^2z^2 + 324a^3b^6c^6d^2h^2l^2z^2 + 81a^5b^5c^4d^2g^2m^2z^2 + 972a^4b^5c^5e^2f^2l^2z^2 + 324a^4b^5c^5d^2g^2l^2z^2 - 324a^3b^6c^6e^2h^2j^2z^2 + 324a^3b^6c^6e^2g^2k^2z^2 - 324a^3b^6c^6e^2f^2l^2z^2 - 1296a^4b^5c^5d^2e^2m^2z^2 + 81a^5b^7c^2d^2e^2m^2z^2 - 324a^3b^6c^6d^2g^2j^2z^2 - 81a^5b^4c^5d^2g^2j^2z^2 + 81a^5b^4c^5d^2e^2l^2z^2 + 324a^3b^6c^6e^2g^2h^2z^2 + 81a^5b^4c^5d^2e^2k^2z^2 + 1296a^3b^6c^6d^2e^2j^2z^2 - 324a^3b^6c^6e^2f^2h^2z^2 + 324a^3b^6c^6d^2g^2h^2z^2 + 81a^5b^5c^4d^2e^2j^2z^2 - 324a^2b^7c^7d^2f^2g^2z^2 + 324a^2b^7c^7d^2e^2h^2z^2 + 81a^5b^3c^6d^2f^2g^2z^2 - 81a^5b^3c^6d^2e^2h^2z^2 + 324a^2b^7c^7d^2e^2g^2z^2 - 81a^5b^3c^6d^2e^2g^2z^2 + 1296a^6c^4j^2k^2l^2m^2z^2 - 1296a^5c^5f^2j^2k^2l^2z^2 - 1296a^5c^5e^2j^2k^2m^2z^2 - 1296a^5c^5d^2j^2l^2m^2z^2 - 1296a^5c^5g^2h^2j^2m^2z^2 + 1296a^5c^5e^2h^2l^2m^2z^2 + 1296a^4c^6e^2f^2j^2k^2z^2 + 1296a^4c^6d^2g^2j^2k^2z^2 + 1296a^4c^6d^2f^2j^2l^2z^2 - 1296a^4c^6d^2e^2k^2l^2z^2 + 1296a^4c^6d^2e^2j^2m^2z^2 + 1296a^4c^6f^2g^2h^2j^2z^2 - 1296a^4c^6e^2f^2h^2l^2z^2 - 1296a^3c^7d^2e^2f^2j^2z^2 + 648a^5b^3c^2k^2l^2m^2z^2 + 648a^4b^3c^3j^2k^2l^2z^2 + 486a^5b^2c^3h^2l^2m^2z^2 - 81a^4b^4c^2h^2l^2m^2z^2 + 81a^4b^3c^3h^2l^2m^2z^2 - 81a^3b^5c^2j^2k^2l^2z^2 - 162a^4b^2c^4g^2k^2m^2z^2 - 81a^4b^3c^3h^2k^2l^2z^2 + 81a^4b^3c^3g^2k^2m^2z^2 - 567a^4b^3c^3h^2j^2l^2z^2 + 486a^4b^2c^4h^2j^2l^2z^2 - 81a^4b^3c^3g^2k^2l^2z^2 + 81a^4b^3c^3e^2l^2m^2z^2 + 81a^3b^5c^2h^2j^2l^2z^2 - 81a^3b^4c^3h^2j^2l^2z^2 + 81a^3b^3c^4e^2l^2m^2z^2 + 2430a^4b^3c^3f^2j^2m^2z^2 - 2268a^4b^2c^4f^2j^2m^2z^2 - 810a^3b^5c^2f^2j^2m^2z^2 + 810a^3b^4c^3f^2j^2m^2z^2 - 648a^4b^3c^3e^2k^2m^2z^2 - 648a^4b^3c^3d^2l^2m^2z^2 - 648a^4b^2c^4h^2j^2k^2z^2 - 648a^4b^2c^4g^2j^2l^2z^2 - 162a^3b^3c^4f^2j^2m^2z^2 + 81a^3b^5c^2e^2k^2m^2z^2 + 81a^3b^5c^2d^2l^2m^2z^2 + 81a^3b^4c^3h^2j^2k^2z^2 + 81a^3b^4c^3g^2j^2l^2z^2 - 81a^2b^6c^2f^2j^2m^2z^2 - 648a^4b^3c^3g^2h^2m^2z^2 + 486a^4b^2c^4g^2j^2k^2z^2 - 486a^4b^2c^4e^2k^2l^2z^2 + 486a^3b^2c^5d^2k^2m^2z^2 - 162a^4b^2c^4d^2k^2m^2z^2 + 81a^3b^5c^2g^2h^2m^2z^2 - 81a^3b^4c^3g^2j^2k^2z^2 + 81a^3b^4c^3e^2k^2l^2z^2 + 81a^3b^3c^4g^2j^2k^2z^2 - 81a^2b^4c^4d^2k^2m^2z^2 + 486a^4b^2c^4e^2j^2l^2z^2 - 486a^4b^2c^4d^2k^2l^2z^2 - 162a^3b^2c^5e^2j^2l^2z^2 - 81a^3b^4c^3e^2j^2l^2z^2 + 81a^3b^4c^3d^2k^2l^2z^2 - 81a^3b^3c^4g^2h^2l^2z^2 - 1458a^4b^2c^4f^2h^2l^2z^2 + 648a^3b^4c^3f^2h^2l^2z^2 - 567a^3b^3c^4f^2h^2l^2z^2 + 486a^3b^2c^5e^2h^2m^2z^2 - 81a^3b^3c^4g^2h^2k^2z^2 + 81a^3b^3c^4e^2h^2m^2z^2 - 81a^2b^6c^2f^2h^2l^2z^2 + 81a^2b^5c^3f^2h^2l^2z^2 - 81a^2b^4c^4e^2h^2m^2z^2 - 1296a^4b^2c^4e^2g^2m^2z^2 - 1296a^4b^2c^4d^2h^2m^2z^2 + 648a^3b^4c^3e^2g^2m^2z^2 + 648a^3b^4c^3d^2h^2m^2z^2 + 81a^3b^3c^4d^2j^2k^2z^2 - 81a^2b^6c^2e^2g^2m^2z^2 - 81a^2b^6c^2d^2h^2m^2z^2 + 81a^2b^3c^5d^2j^2k^2z^2 - 567a^3b^3c^4f^2g^2k^2z^2 - 567a^2b^3c^5d^2g^2m^2z^2 + 486a^3b^2c^5f^2g^2k^2z^2 - 486a^3b^2c^5e^2g^2l^2z^2 + 486a^3b^2
\end{aligned}$$

$$\begin{aligned}
& ^2c^5dg^2mz^2 - 81a^3b^3c^4ehk^2z^2 + 81a^2b^5c^3f*g*k^2z^2 \\
& - 81a^2b^4c^4f*g^2kz^2 + 81a^2b^4c^4e*g^2l*z^2 - 81a^2b^4c^4 \\
& 4*d*g^2mz^2 - 81a^2b^3c^5d^2h*l*z^2 - 567a^3b^3c^4e*f*l^2z^2 - \\
& 486a^3b^2c^5d*h^2kz^2 - 162a^3b^2c^5e*h^2j*z^2 - 81a^3b^3c^4* \\
& d*g*l^2z^2 + 81a^2b^5c^3e*f*l^2z^2 + 81a^2b^4c^4d*h^2kz^2 + 81* \\
& a^2b^3c^5e^2h*j*z^2 - 81a^2b^3c^5e^2g*kz^2 + 81a^2b^3c^5e^2f \\
& *l*z^2 + 1944a^3b^3c^4d*e*m^2z^2 - 729a^2b^5c^3d*e*m^2z^2 + 648a \\
& ^3b^2c^5e*g*j^2z^2 + 648a^3b^2c^5d*h*j^2z^2 - 81a^2b^4c^4e*g*j \\
& ^2z^2 - 81a^2b^4c^4d*h*j^2z^2 + 486a^3b^2c^5d*f*k^2z^2 + 486a^2 \\
& *b^2c^6d^2g*jz^2 - 486a^2b^2c^6d^2e*l*z^2 - 162a^2b^2c^6d^2f* \\
& kz^2 - 81a^2b^4c^4d*f*k^2z^2 + 81a^2b^3c^5d*g^2jz^2 - 486a^2b \\
& ^2c^6d*e^2kz^2 - 81a^2b^3c^5e*g^2h*z^2 - 648a^2b^3c^5d*e*j^2z \\
& ^2 - 162a^2b^2c^6e^2f*h*z^2 + 81a^2b^3c^5e*f*h^2z^2 - 81a^2b^3* \\
& c^5d*g*h^2z^2 - 162a^2b^2c^6d*f*g^2z^2 - 189a^5b^3c^2l^3mz^2 + \\
& 162a^5b^2c^3k^3mz^2 - 27a^4b^4c^2k^3mz^2 - 702a^4b^3c^3j^3 \\
& *mz^2 - 81a^3b^6c*j^2m^2z^2 + 81a^3b^5c^2j^3mz^2 - 54a^5b^3c \\
& ^2j*m^3z^2 - 486a^5b^2c^3j*l^3z^2 + 216a^4b^4c^2j*l^3z^2 - 189* \\
& a^4b^3c^3j*k^3z^2 - 54a^4b^2c^4h^3mz^2 + 27a^3b^5c^2j*k^3z^2 \\
& + 27a^3b^3c^4g^3mz^2 - 810a^4b^4c^2f*m^3z^2 + 540a^5b^2c^3f \\
& *m^3z^2 - 324a^3b^2c^5f^3mz^2 + 54a^2b^4c^4f^3mz^2 + 675a^4b \\
& ^3c^3f*l^3z^2 - 243a^3b^5c^2f*l^3z^2 - 189a^2b^3c^5e^3mz^2 + \\
& 27a^3b^3c^4h^3jz^2 - 486a^4b^2c^4f*k^3z^2 - 486a^2b^2c^6d^3* \\
& mz^2 + 216a^3b^4c^3f*k^3z^2 - 54a^3b^2c^5g^3jz^2 - 27a^2b^6c \\
& ^2f*k^3z^2 - 270a^3b^3c^4f*j^3z^2 - 54a^2b^3c^5f^3jz^2 + 27a^ \\
& 2b^5c^3f*j^3z^2 + 162a^2b^2c^6e^3jz^2 + 162a^3b^2c^5f*h^3z^2 \\
& - 27a^2b^4c^4f*h^3z^2 + 27a^2b^3c^5f*g^3z^2 + 81a*b^2c^7d^2e \\
& ^2z^2 - 648a^6c^4h*l^2mz^2 + 648a^5c^5g^2k*mz^2 - 648a^5c^5h^ \\
& 2*j*lz^2 + 1296a^5c^5h*j^2kz^2 + 1296a^5c^5g*j^2l*z^2 + 1296a^5* \\
& c^5f*j^2mz^2 - 648a^5c^5g*j*k^2z^2 + 648a^5c^5e*k^2l*z^2 + 648a \\
& ^5c^5d*k^2mz^2 - 648a^4c^6d^2k*mz^2 - 648a^5c^5e*j*l^2z^2 + 64 \\
& 8a^5c^5d*k*l^2z^2 + 648a^4c^6e^2j*lz^2 + 324a^6b*c^3l^3mz^2 + \\
& 27a^4b^5c^l^3mz^2 + 648a^5c^5f*h*l^2z^2 - 648a^4c^6e^2h*mz^2 \\
& + 1512a^5b*c^4j^3mz^2 + 1080a^6b*c^3j*m^3z^2 - 162a^4b^5c*j*m^ \\
& 3z^2 - 648a^4c^6f*g^2kz^2 + 648a^4c^6e*g^2l*z^2 - 648a^4c^6d*g \\
& ^2mz^2 - 27a^3b^6c*j*l^3z^2 + 648a^4c^6e*h^2jz^2 + 648a^4c^6d \\
& *h^2kz^2 + 324a^5b*c^4j*k^3z^2 - 1296a^4c^6e*g*j^2z^2 - 1296a^4* \\
& c^6d*h*j^2z^2 - 108a^4b*c^5g^3mz^2 - 648a^4c^6d*f*k^2z^2 - 648a \\
& ^3c^7d^2g*jz^2 + 648a^3c^7d^2f*kz^2 + 648a^3c^7d^2e*lz^2 + 27 \\
& 0a^3b^6c*f*m^3z^2 + 648a^3c^7d*e^2kz^2 - 540a^5b*c^4f*l^3z^2 + \\
& 324a^3b*c^6e^3mz^2 - 108a^4b*c^5h^3jz^2 + 27a^2b^7c*f*l^3z^2 \\
& + 27a*b^5c^4e^3mz^2 + 648a^3c^7e^2f*hz^2 + 216a*b^4c^5d^3mz \\
& ^2 + 648a^4b*c^5f*j^3z^2 + 216a^3b*c^6f^3jz^2 + 648a^3c^7d*f*g^ \\
& 2z^2 - 27a*b^4c^5e^3jz^2 + 324a^2b*c^7d^3jz^2 - 189a*b^3c^6d^ \\
& 3jz^2 - 108a^3b*c^6f*g^3z^2 - 108a^2b*c^7e^3fz^2 + 27a*b^3c^6* \\
& e^3fz^2 + 162a*b^2c^7d^3fz^2 - 1134a^5b^2c^3j^2m^2z^2 + 648a^
\end{aligned}$$

$$\begin{aligned}
& 4*b^4*c^2*j^2*m^2*z^2 + 81*a^5*b^2*c^3*k^2*l^2*z^2 + 162*a^4*b^2*c^4*f^2*m^2 \\
& 2*z^2 + 81*a^4*b^2*c^4*h^2*k^2*z^2 + 81*a^4*b^2*c^4*g^2*l^2*z^2 + 162*a^3*b^2 \\
& ^2*c^5*f^2*j^2*z^2 + 81*a^3*b^2*c^5*e^2*k^2*z^2 + 81*a^3*b^2*c^5*d^2*l^2*z^2 \\
& 2 + 81*a^3*b^2*c^5*g^2*h^2*z^2 + 81*a^2*b^2*c^6*e^2*g^2*z^2 + 81*a^2*b^2*c^6 \\
& d^2*h^2*z^2 - 216*a^6*c^4*k^3*m*z^2 + 216*a^6*c^4*j^3*l^3*z^2 + 27*a^3*b^7*j \\
& *m^3*z^2 + 216*a^5*c^5*h^3*m*z^2 + 432*a^6*c^4*f*m^3*z^2 + 432*a^4*c^6*f^3 \\
& *m*z^2 - 27*b^6*c^4*d^3*m*z^2 - 27*a^2*b^8*f*m^3*z^2 + 216*a^5*c^5*f*k^3*z^2 \\
& 2 + 216*a^4*c^6*g^3*j*z^2 + 216*a^3*c^7*d^3*m*z^2 + 216*a^5*b^4*c*m^4*z^2 - \\
& 216*a^3*c^7*e^3*j*z^2 + 27*b^5*c^5*d^3*j*z^2 - 216*a^4*c^6*f*h^3*z^2 - 27* \\
& b^4*c^6*d^3*f*z^2 - 216*a^2*c^8*d^3*f*z^2 - 648*a^6*c^4*j^2*m^2*z^2 - 324*a^6 \\
& ^6*c^4*k^2*l^2*z^2 - 648*a^5*c^5*f^2*m^2*z^2 - 324*a^5*c^5*h^2*k^2*z^2 - 32 \\
& 4*a^5*c^5*g^2*l^2*z^2 - 648*a^4*c^6*f^2*j^2*z^2 - 324*a^4*c^6*e^2*k^2*z^2 - \\
& 324*a^4*c^6*d^2*l^2*z^2 - 405*a^6*b^2*c^2*m^4*z^2 - 324*a^4*c^6*g^2*h^2*z^2 \\
& 2 - 324*a^3*c^7*e^2*g^2*z^2 - 324*a^3*c^7*d^2*h^2*z^2 + 243*a^4*b^2*c^4*j^4 \\
& *z^2 - 27*a^3*b^4*c^3*j^4*z^2 - 324*a^2*c^8*d^2*e^2*z^2 + 27*a^2*b^2*c^6*f^4 \\
& *z^2 - 108*a^7*c^3*m^4*z^2 - 27*a^4*b^6*m^4*z^2 - 540*a^5*c^5*j^4*z^2 - 10 \\
& 8*a^3*c^7*f^4*z^2 - 216*a^5*b*c^3*f*j*k*l*m*z - 54*a^3*b^5*c*f*j*k*l*m*z + \\
& 27*a^3*b^5*c*g*h*k*l*m*z - 27*a^2*b^6*c*e*g*k*l*m*z - 27*a^2*b^6*c*d*h*k*l \\
& m*z + 432*a^4*b*c^4*d*g*j*k*m*z - 432*a^4*b*c^4*d*e*k*l*m*z + 216*a^4*b*c^4 \\
& *e*g*j*k*l*z + 216*a^4*b*c^4*e*f*j*k*m*z + 216*a^4*b*c^4*d*h*j*k*l*z + 216* \\
& a^4*b*c^4*d*f*j*l*m*z + 216*a^4*b*c^4*f*g*h*j*m*z - 27*a*b^6*c^2*d*e*j*k*l \\
& z - 27*a*b^6*c^2*d*e*h*k*m*z - 27*a*b^6*c^2*d*e*g*l*m*z + 216*a^3*b*c^5*d*e \\
& *h*j*k*z + 216*a^3*b*c^5*d*e*g*j*l*z - 216*a^3*b*c^5*d*e*f*j*m*z + 27*a*b^5 \\
& *c^3*d*e*h*j*k*z + 27*a*b^5*c^3*d*e*g*j*l*z + 27*a*b^5*c^3*d*e*g*h*m*z - 27 \\
& *a*b^4*c^4*d*e*g*h*j*z + 27*a*b^7*c*d*e*k*l*m*z + 270*a^4*b^3*c^2*f*j*k*l*m \\
& *z - 108*a^4*b^3*c^2*g*h*k*l*m*z - 216*a^4*b^2*c^3*f*h*j*k*m*z - 216*a^4*b^2 \\
& ^2*c^3*f*g*j*l*m*z - 216*a^4*b^2*c^3*e*g*k*l*m*z - 216*a^4*b^2*c^3*d*h*k*l*m \\
& *z + 162*a^3*b^4*c^2*e*g*k*l*m*z + 162*a^3*b^4*c^2*d*h*k*l*m*z + 108*a^4*b^2 \\
& ^2*c^3*g*h*j*k*l*z + 108*a^4*b^2*c^3*e*h*j*l*m*z + 54*a^3*b^4*c^2*f*h*j*k*m \\
& z + 54*a^3*b^4*c^2*f*g*j*l*m*z - 27*a^3*b^4*c^2*g*h*j*k*l*z + 540*a^3*b^3*c^3 \\
& ^3*d*e*k*l*m*z - 216*a^2*b^5*c^2*d*e*k*l*m*z - 162*a^3*b^3*c^3*e*g*j*k*l*z \\
& - 162*a^3*b^3*c^3*d*h*j*k*l*z - 108*a^3*b^3*c^3*d*g*j*k*m*z - 54*a^3*b^3*c^3 \\
& ^3*e*f*j*k*m*z - 54*a^3*b^3*c^3*d*f*j*l*m*z + 27*a^2*b^5*c^2*e*g*j*k*l*z + 2 \\
& 7*a^2*b^5*c^2*d*h*j*k*l*z - 108*a^3*b^3*c^3*e*g*h*k*m*z - 108*a^3*b^3*c^3*d \\
& *g*h*l*m*z - 54*a^3*b^3*c^3*f*g*h*j*m*z + 27*a^2*b^5*c^2*e*g*h*k*m*z + 27*a^2 \\
& ^2*b^5*c^2*d*g*h*l*m*z - 540*a^3*b^2*c^4*d*e*j*k*l*z + 216*a^2*b^4*c^3*d*e* \\
& j*k*l*z - 216*a^3*b^2*c^4*d*e*h*k*m*z - 216*a^3*b^2*c^4*d*e*g*l*m*z + 162*a^2 \\
& ^2*b^4*c^3*d*e*h*k*m*z + 162*a^2*b^4*c^3*d*e*g*l*m*z + 108*a^3*b^2*c^4*e*g* \\
& h*j*k*z - 108*a^3*b^2*c^4*e*f*h*j*l*z + 108*a^3*b^2*c^4*d*g*h*j*l*z + 108*a^3 \\
& ^3*b^2*c^4*d*f*g*k*m*z - 27*a^2*b^4*c^3*e*g*h*j*k*z - 27*a^2*b^4*c^3*d*g*h* \\
& j*l*z - 162*a^2*b^3*c^4*d*e*h*j*k*z - 162*a^2*b^3*c^4*d*e*g*j*l*z + 54*a^2*b^3 \\
& ^3*c^4*d*e*f*j*m*z - 108*a^2*b^3*c^4*d*e*g*h*m*z + 108*a^2*b^2*c^5*d*e*g*h \\
& *j*z + 324*a^6*b*c^2*j*k*l*m^2*z - 81*a^5*b^3*c*j*k*l*m^2*z + 27*a^4*b^4*c*j^2 \\
& ^2*k*l*m*z - 27*a^4*b^4*c*h*k^2*l*m*z - 27*a^4*b^4*c*g*k^2*l*m*z + 216*a^5 \\
& *b*c^3*h*j^2*k*m*z + 216*a^5*b*c^3*g*j^2*l*m*z + 54*a^4*b^4*c*f*k^2*l*m^2*z +
\end{aligned}$$

$$\begin{aligned}
& 27a^4b^4c^3h^2jk^2m^2z + 27a^4b^4c^3g^2j^2k^2m^2z + 27a^2b^6c^3f^2k^2l^2m^2z + 216a^5b^3c^3e^2k^2l^2m^2z - 108a^5b^3c^3h^2jk^2l^2m^2z + 27a^3b^5c^3e^2k^2l^2m^2z + 216a^5b^3c^3d^2k^2l^2m^2z + 216a^4b^3c^4e^2j^2k^2l^2m^2z - 108a^5b^3c^3g^2j^2k^2l^2m^2z + 27a^3b^5c^3d^2k^2l^2m^2z - 324a^5b^3c^3e^2jk^2m^2z - 324a^5b^3c^3d^2jk^2m^2z - 216a^5b^3c^3f^2h^2l^2m^2z - 108a^4b^3c^4f^2j^2k^2l^2m^2z - 27a^3b^5c^3e^2jk^2m^2z - 27a^3b^5c^3d^2jk^2m^2z - 324a^5b^3c^3g^2h^2j^2m^2z + 216a^5b^3c^3f^2h^2k^2m^2z + 216a^5b^3c^3f^2g^2l^2m^2z + 216a^5b^3c^3e^2h^2l^2m^2z - 216a^4b^3c^4f^2h^2k^2m^2z - 216a^4b^3c^4f^2g^2l^2m^2z - 27a^3b^5c^3g^2h^2j^2m^2z + 216a^4b^3c^4e^2g^2l^2m^2z - 108a^4b^3c^4g^2h^2j^2k^2l^2m^2z - 216a^4b^3c^4f^2h^2j^2k^2l^2m^2z + 216a^4b^3c^4e^2h^2j^2k^2l^2m^2z + 216a^4b^3c^4d^2h^2k^2m^2z - 108a^4b^3c^4g^2h^2j^2k^2z - 432a^4b^3c^4e^2g^2j^2k^2z - 432a^4b^3c^4d^2h^2j^2k^2z + 216a^4b^3c^4f^2h^2j^2k^2z + 216a^4b^3c^4f^2g^2j^2k^2z + 27a^2b^6c^3e^2g^2j^2m^2z + 27a^2b^6c^3d^2h^2j^2m^2z - 432a^3b^3c^5d^2g^2j^2m^2z - 216a^4b^3c^4f^2g^2j^2k^2z + 216a^3b^3c^5d^2f^2k^2m^2z + 216a^3b^3c^5d^2e^2l^2m^2z - 108a^4b^3c^4e^2h^2j^2k^2z - 108a^4b^3c^4d^2g^2k^2l^2z - 108a^3b^3c^5d^2h^2j^2k^2z + 108a^3b^3c^5d^2g^2k^2l^2z - 54a^3b^5c^3d^2g^2j^2m^2z + 27a^3b^5c^3d^2g^2k^2l^2z + 27a^3b^5c^3d^2e^2l^2m^2z - 216a^4b^3c^4e^2f^2j^2k^2l^2z + 216a^3b^3c^5d^2e^2k^2m^2z - 108a^4b^3c^4d^2g^2j^2k^2l^2z - 108a^3b^3c^5e^2g^2j^2k^2z + 27a^3b^5c^3d^2e^2k^2m^2z + 324a^4b^3c^4d^2e^2j^2m^2z + 216a^3b^3c^5e^2f^2h^2m^2z - 108a^4b^3c^4e^2g^2h^2l^2z + 108a^3b^3c^5e^2g^2h^2l^2z + 108a^3b^3c^5e^2f^2j^2k^2z + 108a^3b^3c^5d^2f^2j^2k^2z + 27a^3b^6c^2d^2e^2j^2m^2z - 216a^3b^3c^5e^2f^2h^2l^2z + 108a^3b^3c^5f^2g^2h^2j^2z - 27a^3b^4c^4d^2e^2j^2k^2z + 216a^3b^3c^5d^2f^2g^2m^2z - 108a^3b^3c^5e^2g^2h^2j^2z + 54a^3b^4c^4d^2f^2g^2m^2z - 27a^3b^4c^4d^2g^2h^2k^2z - 27a^3b^4c^4d^2e^2h^2m^2z - 27a^3b^4c^4d^2e^2j^2k^2z - 108a^3b^3c^5d^2g^2h^2j^2z + 54a^3b^4c^4d^2e^2h^2l^2z + 27a^3b^6c^2d^2e^2h^2l^2z - 27a^3b^5c^3d^2e^2h^2l^2z - 27a^3b^4c^4d^2e^2g^2m^2z - 27a^3b^4c^4d^2e^2f^2m^2z + 216a^2b^3c^6d^2f^2g^2j^2z - 108a^3b^3c^5d^2e^2g^2k^2z - 108a^2b^3c^6d^2e^2h^2j^2z + 108a^2b^3c^6d^2e^2g^2k^2z - 54a^3b^3c^5d^2f^2g^2j^2z - 27a^3b^5c^3d^2e^2g^2k^2z + 27a^3b^4c^4d^2e^2g^2k^2z + 27a^3b^3c^5d^2e^2h^2j^2z - 27a^3b^3c^5d^2e^2g^2k^2z - 108a^2b^3c^6d^2e^2g^2j^2z + 27a^3b^3c^5d^2e^2g^2j^2z - 108a^2b^3c^6d^2e^2f^2j^2z + 27a^3b^3c^5d^2e^2f^2j^2z - 432a^5b^3c^4e^2h^2j^2k^2l^2m^2z + 432a^4b^3c^5d^2e^2j^2k^2l^2m^2z + 432a^4b^3c^5e^2f^2h^2j^2k^2l^2m^2z - 432a^4b^3c^5d^2f^2g^2k^2m^2z - 27a^3b^7c^3d^2e^2j^2m^2z - 54a^5b^2c^2j^2k^2l^2m^2z + 108a^5b^2c^2h^2k^2l^2m^2z + 108a^5b^2c^2g^2k^2l^2m^2z - 54a^5b^2c^2h^2j^2l^2m^2z + 378a^4b^2c^3f^2k^2l^2m^2z - 270a^5b^2c^2f^2k^2l^2m^2z - 189a^3b^4c^2f^2k^2l^2m^2z - 108a^5b^2c^2h^2j^2k^2m^2z - 108a^5b^2c^2g^2j^2k^2l^2m^2z - 54a^4b^3c^2h^2j^2k^2m^2z - 54a^4b^3c^2g^2j^2k^2l^2m^2z - 162a^4b^3c^2e^2k^2l^2m^2z + 54a^4b^2c^3g^2j^2k^2m^2z + 27a^4b^3c^2h^2j^2k^2l^2z - 162a^4b^3c^2d^2k^2l^2m^2z + 108a^4b^2c^3g^2h^2l^2m^2z - 54a^3b^3c^3e^2j^2k^2l^2m^2z + 27a^4b^3c^2g^2j^2k^2l^2z - 27a^3b^4c^2g^2h^2l^2m^2z - 270a^4b^2c^3f^2j^2k^2l^2z + 189a^4b^3c^2e^2j^2k^2m^2z + 189a^4b^3c^2d^2j^2k^2l^2m^2z - 162a^4b^2c^3e^2j^2k^2m^2z - 162a^4b^2c^3d^2j^2k^2l^2m^2z + 135a^3b^3c^3f^2j^2k^2l^2z + 108a^4b^2c^3g^2h^2k^2m^2z + 54a^4b^3c^2f^2h^2l^2m^2z - 54a^4b^2c^3f^2h^2l^2m^2z + 54a^3b^4c^2f^2j^2k^2l^2z - 27a^3b^4c^2
\end{aligned}$$

$$\begin{aligned}
& c^2*g*h^2*k*m*z + 27*a^3*b^4*c^2*e*j^2*k*m*z + 27*a^3*b^4*c^2*d*j^2*l*m*z - \\
& 27*a^2*b^5*c^2*f^2*j*k*l*z - 270*a^3*b^2*c^4*d^2*j*k*m*z + 189*a^4*b^3*c^2 \\
& *g*h*j*m^2*z - 162*a^4*b^2*c^3*g*h*j^2*m*z + 162*a^4*b^2*c^3*e*j*k^2*l*z + \\
& 162*a^3*b^3*c^3*f^2*h*k*m*z + 162*a^3*b^3*c^3*f^2*g*l*m*z - 54*a^4*b^3*c^2* \\
& f*h*k*m^2*z - 54*a^4*b^3*c^2*f*g*l*m^2*z - 54*a^4*b^3*c^2*e*h*l*m^2*z + 54* \\
& a^4*b^2*c^3*d*j*k^2*m*z + 54*a^2*b^4*c^3*d^2*j*k*m*z + 27*a^3*b^4*c^2*g*h*j \\
& ^2*m*z - 27*a^3*b^4*c^2*e*j*k^2*l*z - 27*a^2*b^5*c^2*f^2*h*k*m*z - 27*a^2*b \\
& ^5*c^2*f^2*g*l*m*z + 162*a^4*b^2*c^3*d*j*k*l^2*z - 162*a^3*b^3*c^3*e*g^2*l* \\
& m*z + 108*a^4*b^2*c^3*e*h*k^2*m*z + 108*a^3*b^2*c^4*d^2*h*l*m*z - 54*a^4*b^ \\
& 2*c^3*f*g*k^2*m*z - 27*a^3*b^4*c^2*e*h*k^2*m*z - 27*a^3*b^4*c^2*d*j*k*l^2*z \\
& + 27*a^3*b^3*c^3*g^2*h*j*l*z + 27*a^2*b^5*c^2*e*g^2*l*m*z - 27*a^2*b^4*c^3 \\
& *d^2*h*l*m*z + 270*a^4*b^2*c^3*f*h*j*l^2*z - 270*a^3*b^2*c^4*e^2*h*j*m*z - \\
& 162*a^4*b^2*c^3*e*h*k*l^2*z - 162*a^3*b^3*c^3*d*h^2*k*m*z + 162*a^3*b^2*c^4 \\
& *e^2*h*k*l*z + 108*a^4*b^2*c^3*d*g*l^2*m*z + 108*a^3*b^2*c^4*e^2*g*k*m*z - \\
& 54*a^4*b^2*c^3*e*f*l^2*m*z - 54*a^3*b^4*c^2*f*h*j*l^2*z + 54*a^3*b^3*c^3*f* \\
& h^2*j*l*z - 54*a^3*b^3*c^3*e*h^2*j*m*z + 54*a^3*b^2*c^4*e^2*f*l*m*z + 54*a^ \\
& 2*b^4*c^3*e^2*h*j*m*z + 27*a^3*b^4*c^2*e*h*k*l^2*z - 27*a^3*b^4*c^2*d*g*l^2 \\
& *m*z + 27*a^3*b^3*c^3*g*h^2*j*k*z + 27*a^2*b^5*c^2*d*h^2*k*m*z - 27*a^2*b^4 \\
& *c^3*e^2*h*k*l*z - 27*a^2*b^4*c^3*e^2*g*k*m*z + 432*a^4*b^2*c^3*e*g*j*m^2*z \\
& + 432*a^4*b^2*c^3*d*h*j*m^2*z - 270*a^4*b^2*c^3*d*g*k*m^2*z - 216*a^3*b^4* \\
& c^2*e*g*j*m^2*z - 216*a^3*b^4*c^2*d*h*j*m^2*z + 216*a^3*b^3*c^3*e*g*j^2*m*z \\
& + 216*a^3*b^3*c^3*d*h*j^2*m*z - 162*a^3*b^2*c^4*e*f^2*k*m*z - 162*a^3*b^2* \\
& c^4*d*f^2*l*m*z - 108*a^3*b^2*c^4*f^2*h*j*k*z - 108*a^3*b^2*c^4*f^2*g*j*l*z \\
& + 54*a^4*b^2*c^3*e*f*k*m^2*z + 54*a^4*b^2*c^3*d*f*l*m^2*z + 54*a^3*b^4*c^2 \\
& *d*g*k*m^2*z - 54*a^3*b^3*c^3*f*h*j^2*k*z - 54*a^3*b^3*c^3*f*g*j^2*l*z - 27 \\
& *a^2*b^5*c^2*e*g*j^2*m*z - 27*a^2*b^5*c^2*d*h*j^2*m*z + 27*a^2*b^4*c^3*f^2* \\
& h*j*k*z + 27*a^2*b^4*c^3*f^2*g*j*l*z + 27*a^2*b^4*c^3*e*f^2*k*m*z + 27*a^2* \\
& b^4*c^3*d*f^2*l*m*z + 324*a^2*b^3*c^4*d^2*g*j*m*z - 270*a^3*b^2*c^4*d*g^2*j \\
& *m*z - 162*a^3*b^2*c^4*f^2*g*h*m*z + 162*a^3*b^2*c^4*e*g^2*j*l*z - 162*a^2* \\
& b^3*c^4*d^2*e*l*m*z - 135*a^2*b^3*c^4*d^2*g*k*l*z + 108*a^3*b^2*c^4*d*g^2*k \\
& *l*z + 54*a^4*b^2*c^3*f*g*h*m^2*z + 54*a^3*b^3*c^3*f*g*j*k^2*z - 54*a^3*b^2 \\
& *c^4*f*g^2*j*k*z + 54*a^2*b^4*c^3*d*g^2*j*m*z - 54*a^2*b^3*c^4*d^2*f*k*m*z \\
& + 27*a^3*b^3*c^3*e*h*j*k^2*z + 27*a^3*b^3*c^3*d*g*k^2*l*z + 27*a^2*b^4*c^3* \\
& f^2*g*h*m*z - 27*a^2*b^4*c^3*e*g^2*j*l*z - 27*a^2*b^4*c^3*d*g^2*k*l*z + 27* \\
& a^2*b^3*c^4*d^2*h*j*l*z + 162*a^3*b^2*c^4*d*h^2*j*k*z - 162*a^2*b^3*c^4*d*e \\
& ^2*k*m*z + 108*a^3*b^2*c^4*e*g^2*h*m*z + 54*a^3*b^3*c^3*e*f*j*l^2*z + 27*a^ \\
& 3*b^3*c^3*d*g*j*l^2*z - 27*a^2*b^4*c^3*e*g^2*h*m*z - 27*a^2*b^4*c^3*d*h^2*j \\
& *k*z + 27*a^2*b^3*c^4*e^2*g*j*k*z - 621*a^3*b^3*c^3*d*e*j*m^2*z + 594*a^3*b \\
& ^2*c^4*d*e*j^2*m*z + 243*a^2*b^5*c^2*d*e*j*m^2*z - 243*a^2*b^4*c^3*d*e*j^2* \\
& m*z + 135*a^3*b^3*c^3*e*g*h*l^2*z - 108*a^3*b^2*c^4*e*g*h^2*l*z + 108*a^3*b \\
& ^2*c^4*d*g*h^2*m*z + 54*a^3*b^2*c^4*e*f*j^2*k*z + 54*a^3*b^2*c^4*e*f*h^2*m* \\
& z + 54*a^3*b^2*c^4*d*g*j^2*k*z + 54*a^3*b^2*c^4*d*f*j^2*l*z - 54*a^2*b^3*c^ \\
& 4*e^2*f*h*m*z - 27*a^2*b^5*c^2*e*g*h*l^2*z + 27*a^2*b^4*c^3*e*g*h^2*l*z - 2 \\
& 7*a^2*b^4*c^3*d*g*h^2*m*z - 27*a^2*b^3*c^4*e^2*g*h*l*z - 27*a^2*b^3*c^4*e*f \\
& ^2*j*k*z - 27*a^2*b^3*c^4*d*f^2*j*l*z + 162*a^2*b^2*c^5*d^2*e*j*l*z + 54*a^
\end{aligned}$$

$$\begin{aligned}
& 3*b^2*c^4*f*g*h*j^2*z - 54*a^3*b^2*c^4*d*f*j*k^2*z + 54*a^2*b^3*c^4*e*f^2*h \\
& *l*z + 54*a^2*b^2*c^5*d^2*f*j*k*z - 27*a^2*b^3*c^4*f^2*g*h*j*z - 270*a^2*b^ \\
& 2*c^5*d^2*f*g*m*z - 162*a^3*b^2*c^4*d*g*h*k^2*z + 162*a^2*b^2*c^5*d^2*g*h*k \\
& *z + 162*a^2*b^2*c^5*d*e^2*j*k*z + 108*a^2*b^2*c^5*d^2*e*h*m*z - 54*a^2*b^3 \\
& *c^4*d*f*g^2*m*z + 27*a^2*b^4*c^3*d*g*h*k^2*z + 27*a^2*b^3*c^4*e*g^2*h*j*z \\
& + 270*a^3*b^2*c^4*d*e*h*l^2*z - 270*a^2*b^2*c^5*d*e^2*h*l*z - 162*a^2*b^4*c \\
& ^3*d*e*h*l^2*z + 108*a^2*b^3*c^4*d*e*h^2*l*z + 108*a^2*b^2*c^5*d*e^2*g*m*z \\
& + 54*a^2*b^2*c^5*e^2*f*h*j*z + 27*a^2*b^3*c^4*d*g*h^2*j*z + 162*a^2*b^2*c^5 \\
& *d*e*f^2*m*z - 54*a^3*b^2*c^4*d*e*f*m^2*z - 54*a^2*b^2*c^5*d*f^2*g*k*z + 13 \\
& 5*a^2*b^3*c^4*d*e*g*k^2*z - 108*a^2*b^2*c^5*d*e*g^2*k*z + 54*a^2*b^2*c^5*d* \\
& f*g^2*j*z - 54*a^2*b^2*c^5*d*e*f*j^2*z - 9*a*b^7*c*d*e*l^3*z - 36*a*b*c^7*d \\
& ^3*e*g*z - 108*a^6*b*c^2*k^2*l^2*m*z + 27*a^5*b^3*c*k^2*l^2*m*z - 18*a^5*b^ \\
& 2*c^2*j*k^3*m*z - 27*a^4*b^3*c^2*j^3*k*l*z - 108*a^5*b*c^3*h^2*k^2*m*z - 10 \\
& 8*a^5*b*c^3*g^2*l^2*m*z + 108*a^5*b*c^3*h^2*k*l^2*z + 108*a^5*b*c^3*g^2*k*m \\
& ^2*z + 90*a^5*b^2*c^2*f*l^3*m*z - 18*a^5*b^2*c^2*h*k*l^3*z + 18*a^4*b^2*c^3 \\
& *h^3*k*l*z + 18*a^4*b^2*c^3*h^3*j*m*z - 108*a^5*b*c^3*h*j^2*l^2*z + 18*a^4*b \\
& ^3*c^2*f*k^3*m*z - 18*a^3*b^3*c^3*g^3*j*m*z - 9*a^4*b^3*c^2*g*k^3*l*z + 9* \\
& a^3*b^3*c^3*g^3*k*l*z + 252*a^4*b^2*c^3*f*j^3*m*z + 216*a^5*b*c^3*f*j^2*m^2 \\
& *z + 180*a^3*b^2*c^4*f^3*j*m*z - 108*a^4*b*c^4*e^2*k^2*m*z - 108*a^4*b*c^4* \\
& d^2*l^2*m*z + 90*a^5*b^2*c^2*e*k*m^3*z + 90*a^5*b^2*c^2*d*l*m^3*z - 90*a^3*b \\
& ^2*c^4*f^3*k*l*z + 54*a^3*b^5*c*f*j^2*m^2*z - 54*a^3*b^4*c^2*f*j^3*m*z + 3 \\
& 6*a^5*b^2*c^2*f*j*m^3*z + 36*a^4*b^2*c^3*h*j^3*k*z + 36*a^4*b^2*c^3*g*j^3*l \\
& *z - 36*a^2*b^4*c^3*f^3*j*m*z - 27*a^2*b^6*c*f^2*j*m^2*z + 18*a^2*b^4*c^3*f \\
& ^3*k*l*z - 216*a^4*b*c^4*d^2*k*m^2*z + 108*a^5*b*c^3*d*k^2*m^2*z - 108*a^4*b \\
& ^3*c^2*f*j*l^3*z - 108*a^4*b*c^4*g^2*h^2*m*z + 108*a^2*b^3*c^4*e^3*j*m*z + \\
& 90*a^5*b^2*c^2*g*h*m^3*z + 54*a^4*b^3*c^2*e*k*l^3*z - 54*a^2*b^3*c^4*e^3*k \\
& *l*z + 234*a^2*b^2*c^5*d^3*j*m*z - 144*a^2*b^2*c^5*d^3*k*l*z + 90*a^4*b^2*c \\
& ^3*f*j*k^3*z - 72*a^4*b^2*c^3*d*k^3*l*z + 27*a^4*b^3*c^2*g*h*l^3*z - 27*a^3 \\
& *b^3*c^3*g*h^3*l*z - 18*a^3*b^4*c^2*f*j*k^3*z + 9*a^3*b^4*c^2*d*k^3*l*z + 2 \\
& 16*a^4*b*c^4*f^2*h*l^2*z - 216*a^4*b*c^4*e^2*h*m^2*z + 108*a^4*b*c^4*g^2*h* \\
& k^2*z - 18*a^4*b^2*c^3*g*h*k^3*z + 18*a^3*b^2*c^4*g^3*h*k*z + 18*a^3*b^2*c^ \\
& 4*f*g^3*m*z + 9*a^3*b^4*c^2*g*h*k^3*z - 9*a^3*b^3*c^3*e*j^3*k*z - 9*a^3*b^3 \\
& *c^3*d*j^3*l*z - 144*a^4*b^3*c^2*e*g*m^3*z - 144*a^4*b^3*c^2*d*h*m^3*z - 10 \\
& 8*a^3*b*c^5*e^2*g^2*m*z + 108*a^3*b*c^5*d^2*j^2*k*z - 108*a^3*b*c^5*d^2*h^2 \\
& *m*z - 18*a^2*b^3*c^4*f^3*h*k*z - 18*a^2*b^3*c^4*f^3*g*l*z - 9*a^3*b^3*c^3* \\
& g*h*j^3*z - 216*a^4*b*c^4*d*g^2*m^2*z + 144*a^4*b^2*c^3*e*g*l^3*z - 126*a^3 \\
& *b^2*c^4*d*h^3*l*z - 108*a^4*b*c^4*d*h^2*l^2*z - 108*a^3*b*c^5*f^2*g^2*k*z \\
& - 108*a^3*b*c^5*e^2*h^2*k*z - 90*a^2*b^2*c^5*e^3*f*m*z + 72*a^2*b^2*c^5*e^3 \\
& *g*l*z - 63*a^3*b^4*c^2*e*g*l^3*z - 36*a^3*b^4*c^2*d*h*l^3*z + 27*a^2*b^4*c \\
& ^3*d*h^3*l*z + 27*a*b^6*c^2*d^2*g*m^2*z - 18*a^4*b^2*c^3*d*h*l^3*z - 18*a^3 \\
& *b^2*c^4*f*h^3*j*z - 18*a^3*b^2*c^4*e*h^3*k*z + 18*a^2*b^2*c^5*e^3*h*k*z + \\
& 108*a^3*b*c^5*e^2*h*j^2*z + 54*a^3*b^3*c^3*d*h*k^3*z + 27*a^3*b^3*c^3*e*g*k \\
& ^3*z - 27*a^2*b^3*c^4*e*g^3*k*z + 27*a^2*b^3*c^4*d*g^3*l*z - 27*a*b^4*c^4*d \\
& ^2*g^2*l*z - 9*a^2*b^5*c^2*e*g*k^3*z - 9*a^2*b^5*c^2*d*h*k^3*z + 207*a^3*b^ \\
& 4*c^2*d*e*m^3*z - 108*a^2*b*c^6*d^2*e^2*m*z - 90*a^4*b^2*c^3*d*e*m^3*z - 72
\end{aligned}$$

$$\begin{aligned}
& a^3 b^2 c^4 e g j^3 z - 72 a^3 b^2 c^4 d h j^3 z + 27 a^3 b^3 c^5 d^2 e^2 m z + 18 a^2 b^2 c^5 e f^3 k z + 18 a^2 b^2 c^5 d f^3 l z + 9 a^2 b^4 c^3 e g j^3 z + 9 a^2 b^4 c^3 d h j^3 z - 216 a^3 b^3 c^5 d e^2 l^2 z - 198 a^3 b^3 c^3 d e l^3 z + 108 a^3 b^3 c^5 d g^2 j^2 z - 108 a^3 b^3 c^5 d f^2 k^2 z + 72 a^2 b^5 c^2 d e l^3 z - 27 a^2 b^5 c^3 d e^2 l^2 z + 27 a^2 b^4 c^4 d^2 g j^2 z + 18 a^2 b^2 c^5 f^3 g h z + 144 a^3 b^2 c^4 d e k^3 z - 63 a^2 b^4 c^3 d e k^3 z + 27 a^2 b^4 c^4 d^2 e k^2 z - 9 a^2 b^3 c^4 e g h^3 z - 108 a^2 b^3 c^6 d^2 g^2 h z + 81 a^2 b^3 c^4 d e j^3 z + 27 a^2 b^3 c^5 d^2 g^2 h z - 27 a^2 b^2 c^6 d^2 e^2 j z - 18 a^2 b^2 c^5 d g^3 h z + 108 a^2 b^2 c^6 d e^2 h^2 z - 27 a^2 b^3 c^5 d e^2 h^2 z + 27 a^2 b^2 c^6 d^2 f^2 g z - 18 a^2 b^2 c^5 d e h^3 z - 216 a^6 c^3 j^2 k l m z + 216 a^6 c^3 h j l^2 m z + 216 a^6 c^3 f k l m^2 z - 216 a^5 c^4 f^2 k l m z - 216 a^5 c^4 g^2 j k m z + 216 a^5 c^4 f j^2 k l z + 216 a^5 c^4 f h^2 l m z + 216 a^5 c^4 e j^2 k m z + 216 a^5 c^4 d j^2 l m z + 216 a^5 c^4 g h j^2 m z - 216 a^5 c^4 e j k^2 l z - 216 a^5 c^4 d j k^2 m z + 216 a^4 c^5 d^2 j k m z - 18 a^6 b^2 c^3 k l m^3 z + 216 a^5 c^4 f g k^2 m z - 216 a^5 c^4 d j k l^2 z - 72 a^6 b^2 c^2 j l^3 m z + 18 a^5 b^3 c^3 j l^3 m z - 216 a^5 c^4 f h j l^2 z + 216 a^5 c^4 e h k l^2 z + 216 a^5 c^4 e f l^2 m z - 216 a^4 c^5 e^2 h k l z + 216 a^4 c^5 e^2 h j m z - 216 a^4 c^5 e^2 f l m z - 216 a^5 c^4 e f k m^2 z + 216 a^5 c^4 d g k m^2 z - 216 a^5 c^4 d f l m^2 z + 216 a^4 c^5 e f^2 k m z + 216 a^4 c^5 d f^2 l m z + 108 a^5 b^3 c^3 j^3 k l z - 216 a^5 c^4 f g h m^2 z + 216 a^4 c^5 f^2 g h m z + 216 a^4 c^5 f g^2 j k z - 216 a^4 c^5 e g^2 j l z + 216 a^4 c^5 d g^2 j m z - 72 a^6 b^2 c^2 h k m^3 z - 72 a^6 b^2 c^2 g l m^3 z + 54 a^5 b^3 c^3 h k m^3 z + 54 a^5 b^3 c^3 g l m^3 z - 216 a^4 c^5 d h^2 j k z - 18 a^4 b^4 c^3 f l^3 m z + 9 a^4 b^4 c^3 h k l^3 z - 216 a^4 c^5 e f j^2 k z - 216 a^4 c^5 e f h^2 m z - 216 a^4 c^5 d g j^2 k z - 216 a^4 c^5 d f j^2 l z - 216 a^4 c^5 d e j^2 m z - 72 a^5 b^3 c^3 f k^3 m z + 72 a^4 b^3 c^4 g^3 j m z + 36 a^5 b^3 c^3 g k^3 l z - 36 a^4 b^3 c^4 g^3 k l z - 216 a^4 c^5 f g h j^2 z + 216 a^4 c^5 d f j k^2 z - 216 a^3 c^6 d^2 f j k z - 216 a^3 c^6 d^2 e j l z + 72 a^4 b^4 c^3 f j m^3 z - 63 a^4 b^4 c^3 e k m^3 z - 63 a^4 b^4 c^3 d l m^3 z + 216 a^4 c^5 d g h k^2 z - 216 a^3 c^6 d^2 g h k z + 216 a^3 c^6 d^2 f g m z - 216 a^3 c^6 d e^2 j k z + 144 a^5 b^3 c^3 f j l^3 z - 144 a^3 b^3 c^5 e^3 j m z - 72 a^5 b^3 c^3 e k l^3 z + 72 a^3 b^3 c^5 e^3 k l z - 63 a^4 b^4 c^3 g h m^3 z + 18 a^3 b^5 c^3 f j l^3 z - 18 a^2 b^5 c^3 e^3 j m z - 9 a^3 b^5 c^3 e k l^3 z + 9 a^2 b^5 c^3 e^3 k l z - 216 a^4 c^5 d e h l^2 z - 216 a^3 c^6 e^2 f h j z + 216 a^3 c^6 d e^2 h l z - 126 a^2 b^4 c^4 d^3 j m z + 108 a^4 b^3 c^4 g h^3 l z + 63 a^2 b^4 c^4 d^3 k l z + 36 a^5 b^3 c^3 g h l^3 z - 9 a^3 b^5 c^3 g h l^3 z + 216 a^4 c^5 d e f m^2 z + 216 a^3 c^6 d f^2 g k z - 216 a^3 c^6 d e f^2 m z + 36 a^4 b^3 c^4 e j^3 k z + 36 a^4 b^3 c^4 d j^3 l z - 216 a^3 c^6 d f g^2 j z + 72 a^3 b^5 c^3 e g m^3 z + 72 a^3 b^5 c^3 d h m^3 z + 72 a^3 b^3 c^5 f^3 h k z + 72 a^3 b^3 c^5 f^3 g l z + 36 a^4 b^3 c^4 g h j^3 z + 18 a^2 b^4 c^4 e^3 f m z + 9 a^2 b^6 c^3 e g l^3 z + 9 a^2 b^6 c^3 d h l^3 z - 9 a^2 b^4 c^4 e^3 h k z - 9 a^2 b^4 c^4 e^3 g l z + 216 a^3 c^6 d e f j^2 z - 144 a^2 b^3 c^6 d^3 f m z + 108 a^3 b^3 c^5 e g^3 k z - 108 a^3 b^3 c^5 d g^3 l z + 108 a^2 b^3 c^5 d^3 f m z - 72 a^4 b^3 c^4 d h k^3 z + 72 a^2 b^3 c^6 d^3 h k z - 54 a^2 b^3 c^5
\end{aligned}$$

$$\begin{aligned}
& d^3 h^k k^z + 36 a^4 b^c^4 e g^k^3 z - 36 a^2 b^c^6 d^3 g^k^1 z - 27 a^2 b^3 c^5 d^3 g^k^1 z - 81 a^2 b^6 c^d e^m^3 z + 216 a^4 b^c^4 d^e^1^3 z + 72 a^2 b^c^6 e^3 f^j^z + 72 a^2 b^c^6 d^e^3 l^z - 18 a^2 b^3 c^5 e^3 f^j^z - 18 a^2 b^3 c^5 d^e^3 l^z - 90 a^2 b^c^6 d^3 f^j^z + 72 a^2 b^c^6 d^3 e^k^z + 36 a^3 b^c^5 e^g^h^3 z - 36 a^2 b^c^6 e^3 g^h^z + 9 a^2 b^6 c^2 d^e^k^3 z + 9 a^2 b^3 c^5 e^3 g^h^z - 180 a^3 b^c^5 d^e^j^3 z + 18 a^2 b^c^6 d^3 g^h^z - 9 a^2 b^5 c^3 d^e^j^3 z + 18 a^2 b^c^6 d^e^3 h^z + 9 a^2 b^4 c^4 d^e^h^3 z + 36 a^2 b^c^6 d^e^g^3 z - 9 a^2 b^3 c^5 d^e^g^3 z - 18 a^2 b^c^6 d^e^f^3 z + 27 a^5 b^2 c^2 h^2 l^m^2 z - 27 a^5 b^2 c^2 j^k^2 l^m^2 z + 27 a^4 b^3 c^2 h^2 k^2 m^z + 27 a^4 b^3 c^2 g^2 l^2 m^z + 27 a^5 b^2 c^2 g^k^2 m^2 z - 27 a^4 b^3 c^2 h^2 k^l^2 z - 27 a^4 b^3 c^2 g^2 k^m^2 z - 135 a^4 b^2 c^3 e^2 l^m^2 z + 27 a^5 b^2 c^2 e^l^2 m^2 z + 27 a^4 b^3 c^2 h^j^2 l^2 z - 27 a^4 b^2 c^3 h^2 j^2 l^z + 27 a^3 b^4 c^2 e^2 l^m^2 z - 270 a^4 b^3 c^2 f^j^2 m^2 z - 270 a^4 b^2 c^3 f^2 j^m^2 z + 162 a^3 b^4 c^2 f^2 j^m^2 z - 108 a^3 b^3 c^3 f^2 j^2 m^z - 27 a^4 b^2 c^3 h^2 j^k^2 z - 27 a^4 b^2 c^3 g^2 j^l^2 z + 27 a^3 b^3 c^3 e^2 k^2 m^z + 27 a^3 b^3 c^3 d^2 l^2 m^z + 27 a^2 b^5 c^2 f^2 j^2 m^z + 162 a^3 b^3 c^3 d^2 k^m^2 z - 27 a^4 b^3 c^2 d^k^2 m^2 z - 27 a^4 b^2 c^3 g^j^2 k^2 z + 27 a^3 b^3 c^3 g^2 h^2 m^z - 27 a^2 b^5 c^2 d^2 k^m^2 z + 162 a^3 b^2 c^4 d^2 k^2 l^z - 108 a^4 b^2 c^3 g^h^2 l^2 z - 27 a^4 b^2 c^3 e^j^2 l^2 z + 27 a^3 b^4 c^2 g^h^2 l^2 z + 27 a^3 b^2 c^4 e^2 j^2 l^z - 27 a^2 b^4 c^3 d^2 k^2 l^z - 162 a^3 b^3 c^3 f^2 h^l^2 z + 162 a^3 b^3 c^3 e^2 h^m^2 z - 135 a^4 b^2 c^3 e^h^2 m^2 z + 135 a^3 b^2 c^4 f^2 h^2 l^z + 27 a^3 b^4 c^2 e^h^2 m^2 z - 27 a^3 b^3 c^3 g^2 h^k^2 z - 27 a^3 b^2 c^4 e^2 j^k^2 z - 27 a^3 b^2 c^4 d^2 j^l^2 z + 27 a^2 b^5 c^2 f^2 h^l^2 z - 27 a^2 b^5 c^2 e^2 h^m^2 z - 27 a^2 b^4 c^3 f^2 h^2 l^z - 27 a^3 b^2 c^4 g^2 h^2 j^z + 27 a^2 b^3 c^4 e^2 g^2 m^z - 27 a^2 b^3 c^4 d^2 j^2 k^z + 27 a^2 b^3 c^4 d^2 h^2 m^z + 351 a^3 b^2 c^4 d^2 g^m^2 z - 189 a^2 b^4 c^3 d^2 g^m^2 z + 162 a^3 b^3 c^3 d^2 g^m^2 z - 162 a^3 b^2 c^4 e^2 g^l^2 z + 135 a^3 b^3 c^3 d^h^2 l^2 z + 135 a^3 b^2 c^4 f^2 g^k^2 z - 27 a^2 b^5 c^2 d^h^2 l^2 z - 27 a^2 b^5 c^2 d^g^2 m^2 z - 27 a^2 b^4 c^3 f^2 g^k^2 z + 27 a^2 b^4 c^3 e^2 g^l^2 z + 27 a^2 b^3 c^4 f^2 g^2 k^z + 27 a^2 b^3 c^4 e^2 h^2 k^z + 135 a^3 b^2 c^4 e^f^2 l^2 z - 108 a^3 b^2 c^4 e^g^2 k^2 z + 108 a^2 b^2 c^5 d^2 g^2 l^z + 27 a^3 b^2 c^4 e^h^2 j^2 z + 27 a^2 b^4 c^3 e^g^2 k^2 z - 27 a^2 b^4 c^3 e^f^2 l^2 z - 27 a^2 b^3 c^4 e^2 h^j^2 z - 27 a^2 b^2 c^5 e^2 f^2 l^z - 27 a^2 b^2 c^5 e^2 g^2 j^z - 27 a^2 b^2 c^5 d^2 h^2 j^z + 162 a^2 b^3 c^4 d^e^2 l^2 z - 135 a^2 b^2 c^5 d^2 g^j^2 z - 27 a^2 b^3 c^4 d^g^2 j^2 z + 27 a^2 b^3 c^4 d^f^2 k^2 z - 162 a^2 b^2 c^5 d^2 e^k^2 z - 27 a^2 b^2 c^5 e^f^2 h^2 z - 72 a^7 c^2 k^l^m^3 z + 9 a^5 b^4 k^l^m^3 z + 72 a^6 c^3 j^k^3 m^z - 72 a^6 c^3 h^k^l^3 z - 72 a^6 c^3 f^l^3 m^z - 72 a^5 c^4 h^3 k^l^z - 72 a^5 c^4 h^3 j^m^z - 9 a^4 b^5 h^k^m^3 z - 9 a^4 b^5 g^l^m^3 z - 144 a^6 c^3 f^j^m^3 z - 144 a^5 c^4 h^j^3 k^z - 144 a^5 c^4 g^j^3 l^z - 144 a^5 c^4 f^j^3 m^z - 144 a^4 c^5 f^3 j^m^z + 72 a^6 c^3 e^k^m^3 z + 72 a^6 c^3 d^l^m^3 z + 72 a^4 c^5 f^3 k^l^z + 72 a^6 c^3 g^h^m^3 z + 18 b^6 c^3 d^3 j^m^z - 18 a^3 b^6 f^j^m^3 z - 9 b^6 c^3 d^3 k^l^z + 9 a^3 b^6 e^k^m^3 z + 9 a^3 b^6 d^l^m^3 z + 144 a^5 c^4 d^k^3 l^z + 144 a^3 c^6 d^3 k^l^z - 72 a^5 c^4 f^j^k
\end{aligned}$$

$$\begin{aligned}
&^3z - 72a^3c^6d^3j^*m^*z + 9a^3b^6g^*h^*m^3z - 72a^5c^4g^*h^*k^3z - \\
&72a^4c^5g^3h^*k^*z - 72a^4c^5f^*g^3m^*z - 108a^5b^*c^3j^4m^*z + 63a^6b^2c^*j^*m^4z + 36a^6b^*c^2k^*l^4z - 9a^5b^3c^*k^*l^4z - 144a^5c^4e^*g^*l^3z - 144a^3c^6e^3g^*l^*z + 72a^5c^4d^*h^*l^3z + 72a^4c^5f^*h^3 \\
&*j^*z + 72a^4c^5e^*h^3k^*z + 72a^4c^5d^*h^3l^*z + 72a^3c^6e^3h^*k^*z + \\
&72a^3c^6e^3f^*m^*z - 18b^5c^4d^3f^*m^*z + 9b^5c^4d^3h^*k^*z + 9b^5c^4d^3g^*l^*z - 9a^2b^7e^*g^*m^3z - 9a^2b^7d^*h^*m^3z + 144a^4c^5e^*g^*j^3z + 144a^4c^5d^*h^*j^3z - 72a^5c^4d^*e^*m^3z - 72a^3c^6e^*f^3k^*z \\
&z - 72a^3c^6d^*f^3l^*z + 144a^6b^*c^2f^*m^4z - 108a^5b^3c^*f^*m^4z - \\
&72a^3c^6f^3g^*h^*z + 36a^5b^*c^3h^*k^4z - 36a^3b^*c^5f^4m^*z + 18b^4c^5d^3f^*j^*z - 9b^4c^5d^3e^*k^*z + 9a^4b^4c^*g^*l^4z - 144a^4c^5d^*e^*k^3z - 144a^2c^7d^3e^*k^*z + 72a^2c^7d^3f^*j^*z - 9b^4c^5d^3g^*h^*z \\
&z + 72a^3c^6d^*g^3h^*z + 72a^2c^7d^3g^*h^*z - 72a^5b^*c^3d^*l^4z - 72a^4b^*c^4f^*j^4z + 45a^*b^2c^6d^4l^*z - 36a^2b^*c^6e^4k^*z - 9a^3b^5c^*d^*l^4z + 9a^*b^3c^5e^4k^*z - 72a^3c^6d^*e^*h^3z - 72a^2c^7d^*e^3h^*z + 9b^3c^6d^3e^*g^*z + 72a^2c^7d^*e^*f^3z + 36a^3b^*c^5d^*h^4z - \\
&9a^*b^2c^6e^4g^*z + 36a^*b^*c^7d^3f^2z + 90a^5b^2c^2j^3m^2z + 45a^5b^2c^2j^2l^3z + 9a^4b^3c^2j^2k^3z - 9a^4b^3c^2h^3m^2z - \\
&45a^4b^2c^3g^3m^2z + 9a^3b^4c^2g^3m^2z + 198a^4b^3c^2f^2m^3z - 108a^3b^3c^3f^3m^2z + 18a^2b^5c^2f^3m^2z - 117a^4b^2c^3f^2l^3z + 117a^3b^2c^4e^3m^2z + 63a^3b^4c^2f^2l^3z - 63a^2b^4c^3e^3m^2z - 171a^2b^3c^4d^3m^2z - 54a^3b^3c^3f^2k^3z \\
&+ 9a^3b^2c^4g^3j^2z + 9a^2b^5c^2f^2k^3z + 18a^3b^2c^4f^2j^3z + 18a^2b^3c^4f^3j^2z - 9a^2b^4c^3f^2j^3z - 45a^2b^2c^5e^3j^2z + 9a^2b^3c^4f^2h^3z - 9a^2b^2c^5f^2g^3z + 9a^*b^8d^*e^*m^3z - 36a^*b^*c^7d^4h^*z - 108a^6c^3h^2l^*m^2z + 108a^6c^3j^*k^2l^2z - 108a^6c^3g^*k^2m^2z - 108a^6c^3e^*l^2m^2z + 108a^5c^4h^2j^2l^*z + 108a^5c^4e^2l^*m^2z + 216a^5c^4f^2j^*m^2z + 108a^5c^4h^2j^*k^2z + 108a^5c^4g^2j^*l^2z + 108a^5c^4g^*j^2k^2z - 216a^4c^5d^2k^2l^*z + 108a^5c^4e^*j^2l^2z - 108a^4c^5e^2j^2l^*z - 9a^6b^2c^*l^3m^2z + 108a^5c^4e^*h^2m^2z - 108a^4c^5f^2h^2l^*z + 108a^4c^5e^2j^*k^2z + 108a^4c^5d^2j^*l^2z - 144a^6b^*c^2j^2m^3z + 108a^4c^5g^2h^2j^*z - 27a^4b^4c^*j^3m^2z + 27a^4b^3c^2j^4m^*z + 9a^5b^2c^2k^4l^*z + 216a^4c^5e^2g^*l^2z - 108a^4c^5f^2g^*k^2z - 108a^4c^5d^2g^*m^2z - 9a^4b^4c^*j^2l^3z - 108a^4c^5e^*h^2j^2z - 108a^4c^5e^*f^2l^2z + 108a^3c^6e^2f^2l^*z - 36a^5b^*c^3j^2k^3z + 36a^5b^*c^3h^3m^2z + 108a^3c^6e^2g^2j^*z + 108a^3c^6d^2h^2j^*z - 216a^5b^*c^3f^2m^3z + 144a^4b^*c^4f^3m^2z + 108a^3c^6d^2g^*j^2z - 72a^3b^5c^*f^2m^3z - 45a^5b^2c^2g^*l^4z - 9a^4b^3c^2h^*k^4z - 9a^3b^2c^4g^4l^*z + 9a^2b^3c^4f^4m^*z + 216a^3c^6d^2e^*k^2z - 9a^2b^6c^*f^2l^3z + 9a^*b^6c^2e^3m^2z + 108a^3c^6e^*f^2h^2z + 108a^3b^*c^5d^3m^2z + 108a^2c^7d^2e^2j^*z + 72a^4b^*c^4f^2k^3z + 72a^*b^5c^3d^3m^2z - 72a^3b^*c^5f^3j^2z + 54a^4b^3c^2d^*l^4z - 45a^4b^2c^3e^*k^4z + 18a^3b^3c^3f^*j^4z + 9a^3b^4c^2e^*k^4z - 9a^2b^2c^5f^4j^*z - 108a^2c^7d^2f^2g^*z + 9a^3b^2c^4g^*h^4z
\end{aligned}$$

$$\begin{aligned}
& + 9*a*b^4*c^4*e^3*j^2*z - 72*a^2*b*c^6*d^3*j^2*z + 54*a*b^3*c^5*d^3*j^2*z \\
& - 36*a^3*b*c^5*f^2*h^3*z - 9*a^2*b^3*c^4*d*h^4*z + 9*a^2*b^2*c^5*e*g^4*z + \\
& 9*a*b^2*c^6*e^3*f^2*z + 36*a^7*c^2*l^3*m^2*z + 72*a^6*c^3*j^3*m^2*z - 36*a^6 \\
& c^3*j^2*l^3*z + 9*a^4*b^5*j^2*m^3*z + 36*a^5*c^4*g^3*m^2*z + 36*a^5*c^4*f \\
& ^2*l^3*z - 36*a^4*c^5*e^3*m^2*z - 9*b^7*c^2*d^3*m^2*z + 9*a^2*b^7*f^2*m^3*z \\
& - 36*a^4*c^5*g^3*j^2*z + 72*a^4*c^5*f^2*j^3*z + 36*a^3*c^6*e^3*j^2*z - 9*b \\
& ^5*c^4*d^3*j^2*z + 36*a^3*c^6*f^2*g^3*z - 9*a^4*b^2*c^3*j^5*z - 36*a^2*c^7* \\
& e^3*f^2*z - 9*b^3*c^6*d^3*f^2*z + 36*a^7*c^2*j*m^4*z - 36*a^6*c^3*k^4*l*z - \\
& 18*a^5*b^4*j*m^4*z + 36*a^6*c^3*g*l^4*z + 36*a^4*c^5*g^4*l*z + 18*a^4*b^5* \\
& f*m^4*z - 9*b^4*c^5*d^4*l*z + 36*a^5*c^4*e*k^4*z + 36*a^3*c^6*f^4*j*z - 36* \\
& a^2*c^7*d^4*l*z - 36*a^4*c^5*g*h^4*z + 9*b^3*c^6*d^4*h*z - 36*a^3*c^6*e*g^4 \\
& *z + 36*a^2*c^7*e^4*g*z - 9*b^2*c^7*d^4*e*z - 36*a^7*b*c*m^5*z + 36*a*c^8*d \\
& ^4*e*z + 9*a^6*b^3*m^5*z + 36*a^5*c^4*j^5*z + 9*a^4*b^3*c*g*h*j*k*l*m - 9*a \\
& ^3*b^4*c*e*g*j*k*l*m - 9*a^3*b^4*c*d*h*j*k*l*m - 9*a^3*b^4*c*f*g*h*k*l*m + \\
& 36*a^4*b*c^3*d*e*j*k*l*m + 9*a^2*b^5*c*d*e*j*k*l*m + 36*a^4*b*c^3*e*f*h*j*k \\
& *l*m + 36*a^4*b*c^3*e*f*g*k*l*m + 36*a^4*b*c^3*d*f*h*k*l*m + 9*a^2*b^5*c*e*f* \\
& g*k*l*m + 9*a^2*b^5*c*d*f*h*k*l*m + 36*a^3*b*c^4*d*e*f*j*k*l + 9*a*b^5*c^2* \\
& d*e*f*j*k*l + 36*a^3*b*c^4*d*e*g*h*k*l + 36*a^3*b*c^4*d*e*f*h*k*m + 36*a^3* \\
& b*c^4*d*e*f*g*l*m + 9*a*b^5*c^2*d*e*f*h*k*m + 9*a*b^5*c^2*d*e*f*g*l*m - 9*a \\
& *b^4*c^3*d*e*f*h*j*k - 9*a*b^4*c^3*d*e*f*g*j*l - 9*a*b^4*c^3*d*e*f*g*h*m + \\
& 9*a*b^3*c^4*d*e*f*g*h*j - 9*a*b^6*c*d*e*f*k*l*m + 18*a^4*b^2*c^2*e*g*j*k*l* \\
& m + 18*a^4*b^2*c^2*d*h*j*k*l*m + 18*a^4*b^2*c^2*f*g*h*k*l*m - 36*a^3*b^3*c^ \\
& 2*d*e*j*k*l*m - 36*a^3*b^3*c^2*e*f*g*k*l*m - 36*a^3*b^3*c^2*d*f*h*k*l*m + 9 \\
& *a^3*b^3*c^2*f*g*h*j*k*l + 9*a^3*b^3*c^2*e*g*h*j*k*m + 9*a^3*b^3*c^2*d*g*h* \\
& j*l*m - 108*a^3*b^2*c^3*d*e*f*k*l*m + 54*a^2*b^4*c^2*d*e*f*k*l*m - 36*a^3*b \\
& ^2*c^3*d*f*g*j*k*m + 18*a^3*b^2*c^3*e*f*g*j*k*l + 18*a^3*b^2*c^3*d*f*h*j*k* \\
& l + 18*a^3*b^2*c^3*d*e*h*j*k*m + 18*a^3*b^2*c^3*d*e*g*j*l*m - 9*a^2*b^4*c^2 \\
& *e*f*g*j*k*l - 9*a^2*b^4*c^2*d*f*h*j*k*l - 9*a^2*b^4*c^2*d*e*h*j*k*m - 9*a^ \\
& 2*b^4*c^2*d*e*g*j*l*m + 18*a^3*b^2*c^3*e*f*g*h*k*m + 18*a^3*b^2*c^3*d*f*g*h \\
& *l*m - 9*a^2*b^4*c^2*e*f*g*h*k*m - 9*a^2*b^4*c^2*d*f*g*h*l*m - 36*a^2*b^3*c \\
& ^3*d*e*f*j*k*l - 36*a^2*b^3*c^3*d*e*f*h*k*m - 36*a^2*b^3*c^3*d*e*f*g*l*m + \\
& 9*a^2*b^3*c^3*e*f*g*h*j*k + 9*a^2*b^3*c^3*d*f*g*h*j*l + 9*a^2*b^3*c^3*d*e*g \\
& *h*j*m + 18*a^2*b^2*c^4*d*e*f*h*j*k + 18*a^2*b^2*c^4*d*e*f*g*j*l + 18*a^2*b \\
& ^2*c^4*d*e*f*g*h*m - 9*a^5*b^2*c*h*j*k^2*l*m - 9*a^5*b^2*c*g*j*k*l^2*m + 27 \\
& *a^5*b^2*c*f*j*k*l^2*m - 9*a^4*b^3*c*f*j^2*k*l*m + 9*a^3*b^4*c*f^2*j*k*l*m \\
& - 18*a^5*b*c^2*e*j*k^2*l*m - 9*a^5*b^2*c*g*h*k*l^2*m + 9*a^4*b^3*c*e*j*k^2* \\
& l*m - 18*a^5*b*c^2*f*h*k^2*l*m - 18*a^5*b*c^2*d*j*k*l^2*m + 9*a^4*b^3*c*f*h \\
& *k^2*l*m + 9*a^4*b^3*c*d*j*k*l^2*m + 36*a^5*b*c^2*e*h*k*l^2*m - 36*a^4*b*c^ \\
& 3*e^2*h*k*l*m + 18*a^5*b*c^2*f*h*j*l^2*m - 18*a^5*b*c^2*f*g*k*l^2*m - 18*a^ \\
& 4*b^3*c*e*h*k*l^2*m + 9*a^4*b^3*c*f*g*k*l^2*m + 9*a^3*b^4*c*e*h^2*k*l*m - 9 \\
& *a^2*b^5*c*e^2*h*k*l*m - 54*a^5*b*c^2*e*h*j*l^2*m - 18*a^5*b*c^2*e*g*k*l^2*m \\
& ^2 - 18*a^5*b*c^2*d*h*k*l^2*m + 18*a^4*b^3*c*e*h*j*l^2*m - 9*a^4*b^3*c*f*h*j \\
& *k*m^2 - 9*a^4*b^3*c*f*g*j*l^2*m + 9*a^4*b^3*c*e*g*k*l^2*m + 9*a^4*b^3*c*d* \\
& h*k*l^2*m + 18*a^4*b*c^3*f*g^2*j*k*m - 18*a^4*b*c^3*e*g^2*j*l^2*m + 18*a^3*b^ \\
& 4*c*d*g*k^2*l*m - 9*a^3*b^4*c*e*f*k^2*l*m - 9*a^2*b^5*c*d*g^2*k*l^2*m - 18*a^
\end{aligned}$$

$$\begin{aligned}
& 4*b*c^3*f*g^2*h*l*m - 18*a^4*b*c^3*d*h^2*j*k*m - 9*a^3*b^4*c*d*f*k*l^2*m - \\
& 54*a^4*b*c^3*d*g*j^2*k*m - 18*a^4*b*c^3*f*g*h^2*k*m - 18*a^4*b*c^3*e*g*j^2* \\
& k*l - 18*a^4*b*c^3*d*h*j^2*k*l - 18*a^3*b^4*c*d*g*j*k*m^2 + 9*a^3*b^4*c*e*f \\
& *j*k*m^2 + 9*a^3*b^4*c*d*f*j*l*m^2 - 9*a^3*b^4*c*d*e*k*l*m^2 - 54*a^3*b*c^4 \\
& *d^2*f*j*k*m + 36*a^4*b*c^3*d*g*j*k^2*l - 36*a^3*b*c^4*d^2*g*j*k*l - 18*a^4 \\
& *b*c^3*e*f*j*k^2*l + 18*a^4*b*c^3*d*f*j*k^2*m - 18*a^3*b*c^4*d^2*e*j*l*m + \\
& 9*a^3*b^4*c*f*g*h*j*m^2 - 9*a*b^5*c^2*d^2*g*j*k*l + 36*a^4*b*c^3*d*g*h*k^2* \\
& m - 36*a^3*b*c^4*d^2*g*h*k*m + 18*a^4*b*c^3*e*g*h*k^2*l - 18*a^4*b*c^3*e*f* \\
& h*k^2*m - 18*a^4*b*c^3*d*f*j*k*l^2 - 18*a^3*b*c^4*d^2*f*h*l*m - 18*a^3*b*c^ \\
& 4*d*e^2*j*k*m - 9*a*b^5*c^2*d^2*g*h*k*m - 54*a^4*b*c^3*d*g*h*k*l^2 - 54*a^3 \\
& *b*c^4*e^2*f*h*j*m - 18*a^4*b*c^3*d*f*g*l^2*m - 18*a^3*b*c^4*e^2*f*g*k*m - \\
& 54*a^4*b*c^3*d*f*g*k*m^2 - 36*a^4*b*c^3*e*f*g*j*m^2 - 36*a^4*b*c^3*d*f*h*j* \\
& m^2 + 36*a^3*b*c^4*e*f^2*g*j*m + 36*a^3*b*c^4*d*f^2*h*j*m - 18*a^4*b*c^3*d* \\
& e*h*k*m^2 - 18*a^4*b*c^3*d*e*g*l*m^2 + 18*a^3*b*c^4*e*f^2*h*j*l - 18*a^3*b* \\
& c^4*e*f^2*g*k*l - 18*a^3*b*c^4*d*f^2*h*k*l + 18*a^3*b*c^4*d*f^2*g*k*m - 9*a \\
& ^2*b^5*c*e*f*g*j*m^2 - 9*a^2*b^5*c*d*f*h*j*m^2 - 54*a^3*b*c^4*d*f*g^2*j*m - \\
& 18*a^3*b*c^4*e*f*g^2*j*l - 18*a*b^4*c^3*d^2*f*g*j*m + 9*a*b^4*c^3*d^2*g*h* \\
& j*k + 9*a*b^4*c^3*d^2*f*g*k*l + 9*a*b^4*c^3*d^2*e*g*k*m - 9*a*b^4*c^3*d^2*e \\
& *f*l*m - 18*a^3*b*c^4*e*f*g^2*h*m - 18*a^3*b*c^4*d*f*h^2*j*k - 9*a*b^4*c^3* \\
& d*e^2*f*k*m + 18*a^3*b*c^4*d*f*g*j^2*k - 18*a^3*b*c^4*d*f*g*h^2*m - 18*a^3* \\
& b*c^4*d*e*h*j^2*k - 18*a^3*b*c^4*d*e*g*j^2*l + 18*a*b^4*c^3*d*e*f^2*j*m - 9 \\
& *a*b^5*c^2*d*e*f*j^2*m - 9*a*b^4*c^3*d*e*f^2*k*l - 18*a^2*b*c^5*d^2*e*f*j*l \\
& - 9*a*b^3*c^4*d^2*e*g*j*k + 9*a*b^3*c^4*d^2*e*f*j*l - 54*a^2*b*c^5*d^2*e*g \\
& *h*l - 18*a^2*b*c^5*d^2*e*f*h*m - 18*a^2*b*c^5*d*e^2*f*j*k + 18*a*b^3*c^4*d \\
& ^2*e*g*h*l - 9*a*b^3*c^4*d^2*f*g*h*k + 9*a*b^3*c^4*d^2*e*f*h*m + 9*a*b^3*c^ \\
& 4*d*e^2*f*j*k - 36*a^3*b*c^4*d*e*f*h*l^2 + 36*a^2*b*c^5*d*e^2*f*h*l + 18*a^ \\
& 2*b*c^5*d*e^2*g*h*k - 18*a^2*b*c^5*d*e^2*f*g*m - 18*a*b^3*c^4*d*e^2*f*h*l - \\
& 9*a*b^5*c^2*d*e*f*h*l^2 + 9*a*b^4*c^3*d*e*f*h^2*l + 9*a*b^3*c^4*d*e^2*f*g* \\
& m - 18*a^2*b*c^5*d*e*f^2*h*k - 18*a^2*b*c^5*d*e*f^2*g*l + 9*a*b^3*c^4*d*e*f \\
& ^2*h*k + 9*a*b^3*c^4*d*e*f^2*g*l + 27*a*b^2*c^5*d^2*e*f*g*k + 9*a*b^4*c^3*d \\
& *e*f*g*k^2 - 9*a*b^3*c^4*d*e*f*g^2*k - 9*a*b^2*c^5*d^2*e*f*h*j - 9*a*b^2*c^ \\
& 5*d*e^2*f*g*j - 9*a*b^2*c^5*d*e*f^2*g*h + 72*a^4*c^4*d*f*g*j*k*m + 72*a^4*c \\
& ^4*d*e*f*k*l*m + 9*a*b^6*c*d^2*g*k*l*m + 9*a*b^6*c*d*e*f*j*m^2 - 27*a^4*b^2 \\
& *c^2*f^2*j*k*l*m - 9*a^4*b^2*c^2*g^2*h*j*l*m + 36*a^3*b^3*c^2*e^2*h*k*l*m - \\
& 18*a^4*b^2*c^2*e*h^2*k*l*m - 9*a^4*b^2*c^2*g*h^2*j*k*m + 18*a^4*b^2*c^2*f* \\
& h*j^2*k*m + 18*a^4*b^2*c^2*f*g*j^2*l*m - 18*a^4*b^2*c^2*e*h*j^2*l*m - 9*a^4 \\
& *b^2*c^2*g*h*j^2*k*l - 9*a^3*b^3*c^2*f^2*h*j*k*m - 9*a^3*b^3*c^2*f^2*g*j*l* \\
& m - 63*a^4*b^2*c^2*d*g*k^2*l*m + 63*a^3*b^2*c^3*d^2*g*k*l*m - 45*a^2*b^4*c^ \\
& 2*d^2*g*k*l*m + 36*a^4*b^2*c^2*e*f*k^2*l*m + 27*a^3*b^3*c^2*d*g^2*k*l*m - 9 \\
& *a^4*b^2*c^2*f*h*j*k^2*l - 9*a^4*b^2*c^2*e*h*j*k^2*m + 9*a^3*b^3*c^2*e*g^2* \\
& j*l*m - 9*a^3*b^2*c^3*d^2*h*j*l*m + 36*a^4*b^2*c^2*d*f*k*l^2*m + 27*a^4*b^2 \\
& *c^2*e*h*j*k*l^2 - 27*a^3*b^2*c^3*e^2*h*j*k*l - 18*a^3*b^2*c^3*e^2*f*j*l*m \\
& - 9*a^4*b^2*c^2*f*g*j*k*l^2 - 9*a^4*b^2*c^2*d*g*j*l^2*m + 9*a^3*b^3*c^2*f*g \\
& ^2*h*l*m - 9*a^3*b^3*c^2*e*h^2*j*k*l + 9*a^3*b^3*c^2*d*h^2*j*k*m - 9*a^3*b^ \\
& 2*c^3*e^2*g*j*k*m + 9*a^2*b^4*c^2*e^2*h*j*k*l + 72*a^4*b^2*c^2*d*g*j*k*m^2
\end{aligned}$$

$$\begin{aligned}
& + 36a^4b^2c^2d^2e^2k^2l^2m^2 + 27a^4b^2c^2e^2g^2h^2l^2m - 27a^4b^2c^2e^2f^2j^2k^2m^2 - 27a^4b^2c^2d^2f^2j^2k^2m^2 - 27a^3b^2c^3e^2g^2h^2l^2m + 27a^3b^2c^3e^2f^2j^2k^2m + 27a^3b^2c^3d^2f^2j^2k^2m + 18a^3b^3c^2d^2g^2j^2k^2m + 9a^3b^3c^2f^2g^2h^2k^2m + 9a^3b^3c^2e^2g^2j^2k^2l - 9a^3b^3c^2e^2g^2h^2l^2m - 9a^3b^3c^2e^2f^2j^2k^2m + 9a^3b^3c^2d^2h^2j^2k^2l - 9a^3b^3c^2d^2f^2j^2k^2l + 9a^2b^4c^2e^2g^2h^2l^2m + 36a^2b^3c^3d^2g^2j^2k^2l - 27a^4b^2c^2f^2g^2h^2j^2m^2 + 27a^3b^2c^3f^2g^2h^2j^2m - 18a^4b^2c^2e^2f^2h^2l^2m^2 - 18a^3b^3c^2d^2g^2j^2k^2l - 18a^3b^2c^3d^2g^2j^2k^2l + 18a^2b^3c^3d^2f^2j^2k^2m - 9a^4b^2c^2e^2g^2h^2k^2m^2 - 9a^4b^2c^2d^2g^2h^2l^2m^2 - 9a^3b^3c^2f^2g^2h^2j^2m + 9a^3b^3c^2e^2f^2j^2k^2l - 9a^3b^2c^3f^2g^2h^2k^2l + 9a^2b^4c^2d^2g^2j^2k^2l + 9a^2b^3c^3d^2e^2j^2l^2m + 36a^3b^2c^3e^2f^2g^2l^2m + 36a^2b^3c^3d^2g^2h^2k^2m - 18a^3b^3c^2d^2g^2h^2k^2m - 18a^3b^2c^3d^2g^2h^2k^2m + 9a^3b^3c^2e^2f^2h^2k^2m + 9a^3b^3c^2d^2f^2j^2k^2l^2 - 9a^3b^2c^3f^2g^2h^2j^2l - 9a^3b^2c^3e^2g^2h^2j^2m - 9a^2b^4c^2e^2f^2g^2l^2m + 9a^2b^4c^2d^2g^2h^2k^2m + 9a^2b^3c^3d^2f^2h^2l^2m + 9a^2b^3c^3d^2e^2j^2k^2m + 36a^3b^2c^3d^2f^2h^2k^2m + 36a^3b^2c^3d^2e^2j^2k^2l + 18a^3b^3c^2d^2g^2h^2k^2l^2 + 18a^3b^2c^3e^2g^2h^2j^2l + 18a^3b^2c^3e^2f^2h^2k^2l - 18a^3b^2c^3e^2f^2h^2j^2m - 18a^3b^2c^3d^2g^2h^2k^2l + 18a^3b^2c^3d^2e^2h^2l^2m + 18a^2b^3c^3e^2f^2h^2j^2m - 9a^3b^3c^2e^2g^2h^2j^2l^2 - 9a^3b^3c^2e^2f^2h^2k^2l^2 + 9a^3b^3c^2d^2f^2g^2l^2m - 9a^3b^3c^2d^2e^2h^2l^2m - 9a^3b^2c^3f^2g^2h^2j^2k - 9a^3b^2c^3d^2g^2h^2j^2m - 9a^2b^4c^2d^2f^2h^2k^2m - 9a^2b^4c^2d^2e^2j^2k^2l - 9a^2b^3c^3e^2g^2h^2j^2l - 9a^2b^3c^3e^2f^2h^2k^2l + 9a^2b^3c^3e^2f^2g^2k^2m - 9a^2b^3c^3d^2e^2h^2l^2m + 36a^3b^3c^2e^2f^2g^2j^2m^2 + 36a^3b^3c^2d^2f^2h^2j^2m^2 + 18a^3b^3c^2d^2f^2g^2k^2m^2 - 18a^3b^2c^3e^2f^2g^2j^2m^2 - 18a^3b^2c^3d^2f^2h^2j^2m^2 - 18a^2b^3c^3e^2f^2g^2j^2m - 18a^2b^3c^3d^2f^2h^2j^2m + 9a^3b^3c^2d^2e^2h^2k^2m^2 + 9a^3b^3c^2d^2e^2g^2l^2m^2 - 9a^3b^2c^3e^2g^2h^2j^2k - 9a^3b^2c^3d^2g^2h^2j^2l + 9a^2b^4c^2e^2f^2g^2j^2m^2 + 9a^2b^4c^2d^2f^2h^2j^2m + 9a^2b^3c^3e^2f^2g^2k^2l + 9a^2b^3c^3d^2f^2h^2k^2l + 72a^2b^2c^4d^2f^2g^2j^2m + 36a^2b^2c^4d^2e^2f^2l^2m + 27a^3b^2c^3d^2g^2h^2j^2k^2 + 27a^3b^2c^3d^2f^2g^2k^2l + 27a^3b^2c^3d^2e^2g^2k^2m - 27a^2b^2c^4d^2g^2h^2j^2k - 27a^2b^2c^4d^2f^2g^2k^2l - 27a^2b^2c^4d^2e^2g^2k^2m + 18a^2b^3c^3d^2f^2g^2j^2m - 18a^2b^2c^4d^2e^2h^2k^2l - 9a^3b^2c^3e^2f^2h^2j^2k^2 + 9a^2b^3c^3e^2f^2g^2j^2l - 9a^2b^3c^3d^2g^2h^2j^2k - 9a^2b^3c^3d^2f^2g^2k^2l - 9a^2b^3c^3d^2e^2g^2k^2m - 9a^2b^2c^4d^2f^2h^2j^2l - 9a^2b^2c^4d^2e^2h^2j^2m + 36a^2b^2c^4d^2e^2f^2k^2m - 27a^3b^2c^3d^2e^2h^2j^2l^2 + 27a^2b^2c^4d^2e^2h^2j^2l - 18a^3b^2c^3d^2e^2g^2k^2l^2 - 9a^3b^2c^3d^2f^2g^2j^2l^2 + 9a^2b^4c^2d^2e^2h^2j^2l^2 + 9a^2b^3c^3e^2f^2g^2h^2m + 9a^2b^3c^3d^2f^2h^2j^2k - 9a^2b^3c^3d^2e^2h^2j^2l - 9a^2b^2c^4e^2f^2g^2j^2k - 9a^2b^2c^4d^2e^2g^2j^2m + 63a^3b^2c^3d^2e^2f^2j^2m^2 - 63a^2b^2c^4d^2e^2f^2j^2m - 45a^2b^4c^2d^2e^2f^2j^2m^2 + 36a^2b^2c^4d^2e^2f^2k^2l - 27a^3b^2c^3e^2f^2g^2h^2l^2 + 27a^2b^3c^3d^2e^2f^2j^2m + 27a^2b^2c^4e^2f^2g^2h^2l + 9a^2b^4c^2e^2f^2g^2h^2l^2 - 9a^2b^3c^3e^2f^2g^2h^2l + 9a^2b^3c^3d^2f^2g^2h^2m + 9a^2b^3c^3d^2e^2h^2j^2k + 9a^2b^3c^3d^2e^2g^2j^2l + 18a^2b^2c^4d^2e^2g^2j^2k - 9a^3b^2c^4
\end{aligned}$$

$$\begin{aligned}
& 3*d*e*g*h*m^2 - 9*a^2*b^3*c^3*d*e*g*j*k^2 - 9*a^2*b^2*c^4*e*f^2*g*h*k - 9*a^2*b^2*c^4*d*f^2*g*h*1 + 18*a^2*b^2*c^4*d*f*g^2*h*k - 18*a^2*b^2*c^4*d*e*g^2*h*1 - 9*a^2*b^3*c^3*d*f*g*h*k^2 - 9*a^2*b^2*c^4*e*f*g^2*h*j + 36*a^2*b^3*c^3*d*e*f*h*1^2 - 18*a^2*b^2*c^4*d*e*f*h^2*1 - 9*a^2*b^2*c^4*d*f*g*h^2*j - 9*a^2*b^2*c^4*d*e*g*h*j^2 - 27*a^2*b^2*c^4*d*e*f*g*k^2 + 18*a^2*b^2*c^4*d^2*f*h*k^2 - 9*a^2*b^3*c^3*e*f*g^2*k^2 - 9*a^2*b^2*c^4*e^2*f*h*j^2 - 9*a^2*b^2*c^4*d*f^2*h^2*k + 45*a^2*b^3*c^3*d*e*f^2*m^2 + 36*a^2*b^2*c^4*d^2*e*g*1^2 + 9*a^2*b^3*c^3*d*e*g^2*1^2 + 9*a^2*b^2*c^4*e*f^2*g*j^2 + 9*a^2*b^2*c^4*d*f^2*h*j^2 - 9*a^2*b^2*c^4*d*e^2*h*k^2 - 36*a^2*b^2*c^4*d*e^2*f*1^2 - 9*a^2*b^2*c^4*d*f*g^2*j^2 - 12*a^6*b*c*h*k*1^3*m + 3*a*b^6*c*e^3*k*1*m + 3*a*b^6*c*d*e*f*1^3 - 12*a*b*c^6*d*e^3*f*h + 9*a^5*b^2*c*h^2*k*1^2*m + 18*a^5*b*c^2*g^2*k^2*1*m - 9*a^5*b^2*c*h^2*j*1*m^2 + 9*a^5*b*c^2*h^2*j^2*1*m - 9*a^4*b^3*c*g^2*k^2*1*m - 3*a^4*b^2*c^2*g^3*k*1*m + 18*a^5*b*c^2*f^2*k*1*m^2 + 15*a^3*b^3*c^2*f^3*k*1*m + 9*a^5*b^2*c*h*j^2*k*m^2 + 9*a^5*b^2*c*g*j^2*1*m^2 - 9*a^5*b^2*c*f*k^2*1^2*m + 9*a^5*b*c^2*h^2*j*k^2*m + 9*a^5*b*c^2*g^2*j*1^2*m - 9*a^4*b^3*c*f^2*k*1*m^2 + 36*a^3*b^2*c^3*e^3*k*1*m - 27*a^5*b*c^2*g^2*j*k*m^2 - 18*a^5*b*c^2*h^2*j*k*1^2 - 18*a^2*b^4*c^2*e^3*k*1*m - 9*a^5*b^2*c*g*j*k^2*m^2 - 9*a^5*b^2*c*e*k^2*1*m^2 + 9*a^5*b*c^2*h*j^2*k^2*1 + 9*a^5*b*c^2*g*j^2*k^2*m + 9*a^4*b^3*c*g^2*j*k*m^2 + 9*a^3*b^4*c*e^2*k*1^2*m + 3*a^4*b^2*c^2*h^3*j*k*1 - 54*a^4*b*c^3*d^2*k^2*1*m - 51*a^2*b^3*c^3*d^3*k*1*m - 27*a^4*b*c^3*e^2*j^2*1*m - 18*a^5*b*c^2*g*h^2*1^2*m - 9*a^5*b^2*c*e*j*1^2*m^2 - 9*a^5*b^2*c*d*k*1^2*m^2 + 9*a^5*b*c^2*g^2*h*1*m^2 + 9*a^5*b*c^2*g*j^2*k*1^2 + 9*a^5*b*c^2*e*j^2*1^2*m - 9*a^3*b^4*c*e^2*j*1*m^2 - 9*a^2*b^5*c*d^2*k^2*1*m + 3*a^4*b^2*c^2*g*h^3*1*m - 3*a^3*b^3*c^2*g^3*j*k*1 + 18*a^5*b*c^2*e*j^2*k*m^2 + 18*a^5*b*c^2*d*j^2*1*m^2 + 18*a^4*b*c^3*f^2*j^2*k*1 + 9*a^5*b*c^2*g*h^2*k*m^2 + 9*a^5*b*c^2*f*h^2*1*m^2 + 9*a^5*b*c^2*f*j*k^2*1^2 - 9*a^4*b^3*c*e*j^2*k*m^2 - 9*a^4*b^3*c*d*j^2*1*m^2 + 9*a^4*b^2*c^2*f*j^3*k*1 + 9*a^4*b^2*c^2*e*j^3*k*m + 9*a^4*b^2*c^2*d*j^3*1*m + 9*a^4*b*c^3*f^2*h^2*1*m + 9*a^4*b*c^3*e^2*j*k^2*m + 9*a^4*b*c^3*d^2*j*1^2*m - 3*a^3*b^3*c^2*g^3*h*k*m - 3*a^3*b^2*c^3*f^3*j*k*1 + 3*a^2*b^4*c^2*f^3*j*k*1 + 45*a^4*b*c^3*d^2*j*k*m^2 - 27*a^5*b*c^2*d*j*k^2*m^2 + 18*a^5*b*c^2*g*h*j^2*m^2 + 18*a^4*b*c^3*e^2*j*k*1^2 + 15*a^2*b^3*c^3*e^3*j*k*1 - 12*a^3*b^2*c^3*f^3*h*k*m - 12*a^3*b^2*c^3*f^3*g*1*m + 9*a^5*b*c^2*g*h*k^2*1^2 - 9*a^4*b^3*c*g*h*j^2*m^2 + 9*a^4*b^3*c*d*j*k^2*m^2 + 9*a^4*b^2*c^2*g*h*j^3*m + 9*a^4*b*c^3*g^2*h^2*k*1 + 9*a^4*b*c^3*g^2*h^2*j*m + 9*a^2*b^5*c*d^2*j*k*m^2 + 3*a^2*b^4*c^2*f^3*h*k*m + 3*a^2*b^4*c^2*f^3*g*1*m + 36*a^2*b^2*c^4*d^3*j*k*1 + 18*a^4*b*c^3*e^2*g*1^2*m + 15*a^2*b^3*c^3*e^3*g*1*m + 12*a^4*b^2*c^2*d*j*k^3*1 + 9*a^5*b*c^2*f*g*k^2*m^2 + 9*a^5*b*c^2*e*h*k^2*m^2 + 9*a^4*b*c^3*g^2*h*j^2*1 + 9*a^4*b*c^3*f^2*h*k^2*1 + 9*a^4*b*c^3*f^2*g*k^2*m + 9*a^4*b*c^3*d^2*h*1*m^2 - 9*a^3*b^3*c^2*e*h^3*k*m + 6*a^2*b^3*c^3*e^3*h*k*m + 45*a^4*b*c^3*e^2*h*j*m^2 + 36*a^2*b^2*c^4*d^3*h*k*m - 33*a^3*b^2*c^3*d*g^3*1*m - 27*a^4*b*c^3*f^2*h*j*1^2 - 27*a^4*b*c^3*e^2*f*1*m^2 - 27*a^4*b*c^3*e*h^2*j^2*m - 18*a^4*b*c^3*g^2*h*j*k^2 - 18*a^4*b*c^3*f*g^2*k^2*1 - 18*a^4*b*c^3*e*g^2*k^2*m - 18*a^3*b*c^4*d^2*g^2*1*m + 12*a^4*b^2*c^2*d*h*k^3*m + 9*a^5*b*c^2*e*f*1^2*m^2 + 9*a^5*b*c^2*d*g*1^2*m^2 + 9*a^4*b*c^3*f^2*g*k*1^2 + 9*a^4*b*c^3*e^2*g*k*m^2 + 9*a^
\end{aligned}$$

$$\begin{aligned}
& 4*b*c^3*g*h^2*j^2*k + 9*a^4*b*c^3*f*h^2*j^2*1 + 9*a^4*b*c^3*e*f^2*1^2*m - 9 \\
& *a^3*b^4*c*e*h^2*j*m^2 + 9*a^3*b*c^4*e^2*f^2*1*m + 9*a^2*b^5*c*e^2*h*j*m^2 \\
& + 9*a^2*b^4*c^2*d*g^3*1*m - 9*a^2*b^2*c^4*d^3*g*1*m - 9*a*b^5*c^2*d^2*g^2*1 \\
& *m - 6*a^4*b^2*c^2*e*h*k^3*1 - 6*a^3*b^2*c^3*f*g^3*j*m + 3*a^4*b^2*c^2*g*h* \\
& j*k^3 + 3*a^4*b^2*c^2*f*g*k^3*1 + 3*a^4*b^2*c^2*e*g*k^3*m + 3*a^3*b^2*c^3*g \\
& ^3*h*j*k + 3*a^3*b^2*c^3*f*g^3*k*1 + 3*a^3*b^2*c^3*e*g^3*k*m - 27*a^3*b*c^4 \\
& *d^2*h^2*k*1 + 18*a^4*b*c^3*e*f^2*k*m^2 + 18*a^4*b*c^3*d*f^2*1*m^2 + 9*a^4* \\
& b*c^3*f*h^2*j*k^2 + 9*a^4*b*c^3*f*g^2*j*1^2 + 9*a^4*b*c^3*e*g^2*k*1^2 + 9*a \\
& ^4*b*c^3*d*h^2*k^2*1 + 9*a^3*b^4*c*e*g*j^2*m^2 + 9*a^3*b^4*c*d*h*j^2*m^2 - \\
& 9*a^3*b^3*c^2*e*g*j^3*m - 9*a^3*b^3*c^2*d*h*j^3*m + 9*a^3*b*c^4*e^2*g^2*k*1 \\
& + 9*a^3*b*c^4*e^2*g^2*j*m + 9*a^3*b*c^4*d^2*h^2*j*m - 3*a^2*b^3*c^3*f^3*h* \\
& j*k - 3*a^2*b^3*c^3*f^3*g*j*1 - 3*a^2*b^3*c^3*e*f^3*k*m - 3*a^2*b^3*c^3*d*f \\
& ^3*1*m + 45*a^4*b*c^3*d*g^2*j*m^2 + 45*a^3*b*c^4*d^2*g*j^2*m + 24*a^4*b^2*c \\
& ^2*d*g*k*1^3 + 24*a^2*b^2*c^4*e^3*f*j*m + 18*a^4*b*c^3*f^2*g*h*m^2 + 18*a^4 \\
& *b*c^3*d*h^2*j*1^2 + 18*a^3*b*c^4*e^2*h^2*j*k - 12*a^4*b^2*c^2*e*g*j*1^3 - \\
& 12*a^4*b^2*c^2*e*f*k*1^3 - 12*a^4*b^2*c^2*d*e*1^3*m - 12*a^2*b^2*c^4*e^3*g* \\
& j*1 - 12*a^2*b^2*c^4*e^3*f*k*1 - 12*a^2*b^2*c^4*d*e^3*1*m + 9*a^4*b*c^3*f*g \\
& *j^2*k^2 + 9*a^4*b*c^3*e*h*j^2*k^2 + 9*a^3*b^2*c^3*e*h^3*j*k + 9*a^3*b^2*c^ \\
& 3*d*h^3*j*1 + 9*a^3*b*c^4*f^2*g^2*j*k + 9*a^3*b*c^4*d^2*h*j^2*1 + 9*a^2*b^5 \\
& *c*d*g^2*j*m^2 + 9*a*b^5*c^2*d^2*g*j^2*m - 3*a^4*b^2*c^2*d*h*j*1^3 - 3*a^2* \\
& b^3*c^3*f^3*g*h*m - 3*a^2*b^2*c^4*e^3*h*j*k + 18*a^4*b*c^3*f*g*h^2*1^2 + 18 \\
& *a^3*b*c^4*e^2*g*h^2*m + 18*a^3*b*c^4*d^2*h*j*k^2 + 18*a^3*b*c^4*d^2*f*k^2* \\
& 1 + 18*a^3*b*c^4*d^2*e*k^2*m + 9*a^4*b*c^3*e*g^2*h*m^2 + 9*a^4*b*c^3*e*f*j^ \\
& 2*1^2 + 9*a^4*b*c^3*d*g*j^2*1^2 + 9*a^3*b^2*c^3*f*g*h^3*1 + 9*a^3*b^2*c^3*e \\
& *g*h^3*m + 9*a^3*b*c^4*f^2*g^2*h*1 + 9*a^3*b*c^4*e^2*g*j^2*k + 9*a^3*b*c^4* \\
& e^2*f*j^2*1 - 9*a^2*b^3*c^3*d*g^3*j*1 + 9*a*b^4*c^3*d^2*g^2*j*1 - 3*a^4*b^2 \\
& *c^2*f*g*h*1^3 - 3*a^3*b^3*c^2*e*g*j*k^3 - 3*a^3*b^3*c^2*d*h*j*k^3 - 3*a^3* \\
& b^3*c^2*d*f*k^3*1 - 3*a^3*b^3*c^2*d*e*k^3*m - 3*a^2*b^2*c^4*e^3*g*h*m - 33* \\
& a^3*b^2*c^3*d*e*j^3*m - 27*a^4*b*c^3*e*f*h^2*m^2 - 27*a^3*b*c^4*d^2*e*k*1^2 \\
& - 18*a^4*b*c^3*d*e*j^2*m^2 - 18*a^3*b*c^4*e*f^2*j^2*k - 18*a^3*b*c^4*d*f^2 \\
& *j^2*1 - 9*a^4*b^2*c^2*d*e*j*m^3 + 9*a^4*b*c^3*d*g*h^2*m^2 + 9*a^4*b*c^3*d* \\
& e*k^2*1^2 + 9*a^3*b*c^4*f^2*g*h^2*k + 9*a^3*b*c^4*e^2*f*j*k^2 + 9*a^3*b*c^4 \\
& *d^2*f*j*1^2 + 9*a^3*b*c^4*e*f^2*h^2*m + 9*a^3*b*c^4*d*e^2*k^2*1 - 9*a^2*b^ \\
& 5*c*d*e*j^2*m^2 + 9*a^2*b^4*c^2*d*e*j^3*m - 9*a^2*b^3*c^3*d*g^3*h*m + 9*a^2 \\
& *b*c^5*d^2*e^2*k*1 + 9*a^2*b*c^5*d^2*e^2*j*m + 9*a*b^4*c^3*d^2*g^2*h*m - 6* \\
& a^3*b^2*c^3*d*g*j^3*k - 3*a^3*b^3*c^2*f*g*h*k^3 + 3*a^3*b^2*c^3*e*f*j^3*k + \\
& 3*a^3*b^2*c^3*d*f*j^3*1 + 3*a^2*b^2*c^4*e*f^3*j*k + 3*a^2*b^2*c^4*d*f^3*j* \\
& 1 + 45*a^3*b*c^4*d^2*g*h*1^2 + 36*a^4*b^2*c^2*e*f*g*m^3 + 36*a^4*b^2*c^2*d* \\
& f*h*m^3 - 27*a^3*b*c^4*e^2*g*h*k^2 - 27*a^3*b*c^4*d*g^2*h^2*1 - 18*a^3*b*c^ \\
& 4*f^2*g*h*j^2 + 18*a^3*b*c^4*d*e^2*j*1^2 + 15*a^3*b^3*c^2*d*e*j*1^3 + 12*a^ \\
& 2*b^2*c^4*e*f^3*g*m + 12*a^2*b^2*c^4*d*f^3*h*m + 9*a^3*b*c^4*f*g^2*h^2*j + \\
& 9*a^3*b*c^4*e*g^2*h^2*k + 9*a^3*b*c^4*d*f^2*j*k^2 + 9*a^2*b*c^5*d^2*f^2*j*k \\
& + 9*a*b^5*c^2*d^2*g*h*1^2 - 9*a*b^4*c^3*d^2*g*h^2*1 - 6*a^2*b^2*c^4*e*f^3* \\
& h*1 + 3*a^3*b^2*c^3*f*g*h*j^3 + 3*a^2*b^2*c^4*f^3*g*h*j + 45*a^3*b*c^4*d^2* \\
& f*g*m^2 - 27*a^2*b*c^5*d^2*f^2*g*m + 18*a^3*b*c^4*e^2*f*g*1^2 + 15*a^3*b^3*
\end{aligned}$$

$$\begin{aligned}
& c^2 * e * f * g * l^3 - 12 * a^3 * b^2 * c^3 * d * e * j * k^3 + 9 * a^3 * b * c^4 * d^2 * e * h * m^2 + 9 * a^3 * \\
& b * c^4 * e * g^2 * h * j^2 + 9 * a^3 * b * c^4 * e * f^2 * h * k^2 - 9 * a^2 * b^3 * c^3 * d * f * h^3 * l + 9 * a \\
& ^2 * b * c^5 * d^2 * f^2 * h * l + 9 * a * b^5 * c^2 * d^2 * f * g * m^2 + 9 * a * b^3 * c^4 * d^2 * f^2 * g * m + \\
& 6 * a^3 * b^3 * c^2 * d * f * h * l^3 + 3 * a^2 * b^4 * c^2 * d * e * j * k^3 + 18 * a^3 * b * c^4 * e * f * g^2 * k^ \\
& 2 + 18 * a^2 * b * c^5 * d^2 * g^2 * h * j + 18 * a^2 * b * c^5 * d^2 * f * g^2 * l + 18 * a^2 * b * c^5 * d^2 * \\
& e * g^2 * m - 12 * a^3 * b^2 * c^3 * d * f * h * k^3 + 9 * a^3 * b * c^4 * e * f * h^2 * j^2 + 9 * a^3 * b * c^4 * \\
& d * f^2 * g * l^2 + 9 * a^3 * b * c^4 * d * e^2 * g * m^2 + 9 * a^3 * b * c^4 * d * g * h^2 * j^2 + 9 * a^2 * b^2 \\
& * c^4 * e * f * g^3 * k + 9 * a^2 * b^2 * c^4 * d * g^3 * h * j + 9 * a^2 * b^2 * c^4 * d * f * g^3 * l + 9 * a^2 * \\
& b^2 * c^4 * d * e * g^3 * m + 9 * a^2 * b * c^5 * e^2 * f^2 * h * j + 9 * a^2 * b * c^5 * e^2 * f^2 * g * k - 9 * a \\
& * b^3 * c^4 * d^2 * g^2 * h * j - 9 * a * b^3 * c^4 * d^2 * f * g^2 * l - 9 * a * b^3 * c^4 * d^2 * e * g^2 * m - \\
& 3 * a^3 * b^2 * c^3 * e * f * g * k^3 + 3 * a^2 * b^4 * c^2 * e * f * g * k^3 + 3 * a^2 * b^4 * c^2 * d * f * h * k^3 \\
& - 54 * a^3 * b * c^4 * d * e * f^2 * m^2 - 51 * a^3 * b^3 * c^2 * d * e * f * m^3 - 27 * a^3 * b * c^4 * d * e * g \\
& ^2 * l^2 + 9 * a^3 * b * c^4 * d * e * h^2 * k^2 + 9 * a^2 * b * c^5 * e^2 * f * g^2 * j + 9 * a^2 * b * c^5 * d^ \\
& 2 * f * h^2 * j + 9 * a^2 * b * c^5 * d^2 * e * h^2 * k + 9 * a^2 * b * c^5 * d * e^2 * g^2 * l - 9 * a * b^5 * c^2 \\
& * d * e * f^2 * m^2 - 9 * a * b^4 * c^3 * d^2 * e * g * l^2 - 9 * a * b^2 * c^5 * d^2 * e^2 * g * l - 9 * a * b^2 * \\
& c^5 * d^2 * e^2 * f * m - 3 * a^2 * b^3 * c^3 * e * f * g * j^3 - 3 * a^2 * b^3 * c^3 * d * f * h * j^3 + 36 * a^ \\
& 3 * b^2 * c^3 * d * e * f * l^3 - 27 * a^2 * b * c^5 * d^2 * f * g * j^2 - 18 * a^2 * b^4 * c^2 * d * e * f * l^3 - \\
& 18 * a^2 * b * c^5 * d * e^2 * h^2 * j + 9 * a^2 * b * c^5 * d^2 * e * h * j^2 + 9 * a^2 * b * c^5 * d * f^2 * g^2 \\
& * j + 9 * a * b^4 * c^3 * d * e^2 * f * l^2 + 9 * a * b^3 * c^4 * d^2 * f * g * j^2 - 9 * a * b^2 * c^5 * d^2 * f^ \\
& 2 * g * j - 9 * a * b^2 * c^5 * d^2 * e * f^2 * l + 3 * a^2 * b^2 * c^4 * d * e * h^3 * j - 18 * a^2 * b * c^5 * e^ \\
& 2 * f * g * h^2 + 18 * a^2 * b * c^5 * d^2 * e * f * k^2 + 15 * a^2 * b^3 * c^3 * d * e * f * k^3 + 9 * a^2 * b * c \\
& ^5 * e * f^2 * g^2 * h + 9 * a^2 * b * c^5 * d * e^2 * g * j^2 - 9 * a * b^3 * c^4 * d^2 * e * f * k^2 + 9 * a * b^ \\
& 2 * c^5 * d^2 * e * g^2 * j - 9 * a * b^2 * c^5 * d * e^2 * f^2 * k + 3 * a^2 * b^2 * c^4 * e * f * g * h^3 + 18 * \\
& a^2 * b * c^5 * d * e * f^2 * j^2 + 9 * a^2 * b * c^5 * d * f^2 * g * h^2 - 9 * a * b^3 * c^4 * d * e * f^2 * j^2 + \\
& 9 * a * b^2 * c^5 * d^2 * f * g^2 * h - 3 * a^2 * b^2 * c^4 * d * e * f * j^3 + 9 * a^2 * b * c^5 * d * e * g^2 * h^ \\
& 2 - 9 * a * b^2 * c^5 * d^2 * e * g * h^2 + 9 * a * b^2 * c^5 * d * e^2 * f * h^2 - 36 * a^6 * c^2 * f * j * k * l * \\
& m^2 + 36 * a^5 * c^3 * f^2 * j * k * l * m - 36 * a^5 * c^3 * f * h^2 * j * l * m + 36 * a^5 * c^3 * e * h * j^2 * \\
& l * m - 18 * a^6 * b * c * j^2 * k * l * m^2 + 9 * a^6 * b * c * j * k^2 * l^2 * m + 3 * a^5 * b^2 * c * j^3 * k * l * \\
& m - 36 * a^5 * c^3 * f * g * j * k^2 * m - 36 * a^5 * c^3 * e * f * k^2 * l * m + 36 * a^5 * c^3 * d * g * k^2 * l * \\
& m - 36 * a^4 * c^4 * d^2 * g * k * l * m - 36 * a^5 * c^3 * e * h * j * k * l^2 - 36 * a^5 * c^3 * e * f * j * l^2 * \\
& m - 36 * a^5 * c^3 * d * f * k * l^2 * m + 36 * a^4 * c^4 * e^2 * h * j * k * l + 36 * a^4 * c^4 * e^2 * f * j * l * \\
& m + 9 * a^6 * b * c * h * k^2 * l * m^2 - 3 * a^4 * b^3 * c * h^3 * k * l * m - 36 * a^5 * c^3 * e * g * h * l^2 * m \\
& + 36 * a^5 * c^3 * e * f * j * k * m^2 - 36 * a^5 * c^3 * d * g * j * k * m^2 + 36 * a^5 * c^3 * d * f * j * l * m^2 \\
& - 36 * a^5 * c^3 * d * e * k * l * m^2 + 36 * a^4 * c^4 * e^2 * g * h * l * m - 36 * a^4 * c^4 * e * f^2 * j * k * m \\
& - 36 * a^4 * c^4 * d * f^2 * j * l * m + 9 * a^6 * b * c * h * j * l^2 * m^2 + 9 * a^6 * b * c * g * k * l^2 * m^2 + \\
& 9 * a^5 * b^2 * c * g * k^3 * l * m + 3 * a^3 * b^4 * c * g^3 * k * l * m + 36 * a^5 * c^3 * f * g * h * j * m^2 + 36 \\
& * a^5 * c^3 * e * f * h * l * m^2 - 36 * a^4 * c^4 * f^2 * g * h * j * m - 36 * a^4 * c^4 * e * f^2 * h * l * m - 24 \\
& * a^4 * b * c^3 * f^3 * k * l * m - 12 * a^5 * b * c^2 * h * j^3 * k * m - 12 * a^5 * b * c^2 * g * j^3 * l * m - 3 * \\
& a^2 * b^5 * c * f^3 * k * l * m - 36 * a^4 * c^4 * e * g^2 * h * k * l - 36 * a^4 * c^4 * e * f * g^2 * l * m + 12 * \\
& a^5 * b^2 * c * e * k * l^3 * m - 6 * a^5 * b^2 * c * f * j * l^3 * m + 3 * a^5 * b^2 * c * h * j * k * l^3 + 48 * a^ \\
& 3 * b * c^4 * d^3 * k * l * m + 36 * a^4 * c^4 * e * f * h^2 * j * m + 36 * a^4 * c^4 * d * g * h^2 * k * l - 36 * a^ \\
& 4 * c^4 * d * f * h^2 * k * m - 36 * a^4 * c^4 * d * e * j^2 * k * l + 24 * a^5 * b * c^2 * d * k^3 * l * m + 21 * a * \\
& b^5 * c^2 * d^3 * k * l * m - 12 * a^5 * b * c^2 * g * j * k^3 * l - 9 * a^4 * b^3 * c * d * k^3 * l * m + 6 * a^5 * \\
& b * c^2 * f * j * k^3 * m + 3 * a^5 * b^2 * c * g * h * l^3 * m - 36 * a^4 * c^4 * e * f * h * j^2 * l - 12 * a^5 * b \\
& * c^2 * g * h * k^3 * m - 3 * a^5 * b^2 * c * e * j * k * m^3 - 3 * a^5 * b^2 * c * d * j * l * m^3 - 36 * a^4 * c^4
\end{aligned}$$

$$\begin{aligned}
& *d*g*h*j*k^2 - 36*a^4*c^4*d*f*g*k^2*1 - 36*a^4*c^4*d*e*h*k^2*1 - 36*a^4*c^4 \\
& *d*e*g*k^2*m + 36*a^3*c^5*d^2*g*h*j*k + 36*a^3*c^5*d^2*f*g*k*1 - 36*a^3*c^5 \\
& *d^2*f*g*j*m + 36*a^3*c^5*d^2*e*h*k*1 + 36*a^3*c^5*d^2*e*g*k*m - 36*a^3*c^5 \\
& *d^2*e*f*1*m + 24*a^5*b^2*c*e*h*1*m^3 - 24*a^3*b*c^4*e^3*j*k*1 - 12*a^5*b^2 \\
& *c*f*h*k*m^3 - 12*a^5*b^2*c*f*g*1*m^3 - 3*a^5*b^2*c*g*h*j*m^3 - 3*a^4*b^3*c \\
& *e*j*k*1^3 - 3*a*b^5*c^2*e^3*j*k*1 + 36*a^4*c^4*d*e*h*j*1^2 + 36*a^4*c^4*d* \\
& e*g*k*1^2 - 36*a^3*c^5*d*e^2*h*j*1 - 36*a^3*c^5*d*e^2*g*k*1 - 36*a^3*c^5*d* \\
& e^2*f*k*m + 24*a^4*b*c^3*e*h^3*k*m - 24*a^3*b*c^4*e^3*g*1*m - 18*a*b^4*c^3* \\
& d^3*j*k*1 - 12*a^4*b*c^3*g*h^3*j*1 - 12*a^4*b*c^3*f*h^3*k*1 - 12*a^4*b*c^3* \\
& d*h^3*1*m + 12*a^3*b*c^4*e^3*h*k*m + 6*a^4*b*c^3*f*h^3*j*m - 3*a^4*b^3*c*g* \\
& h*j*1^3 - 3*a^4*b^3*c*f*h*k*1^3 - 3*a^4*b^3*c*e*g*1^3*m - 3*a^4*b^3*c*d*h*1 \\
& ^3*m - 3*a*b^5*c^2*e^3*h*k*m - 3*a*b^5*c^2*e^3*g*1*m + 36*a^4*c^4*e*f*g*h*1 \\
& ^2 - 36*a^4*c^4*d*e*f*j*m^2 - 36*a^3*c^5*e^2*f*g*h*1 - 36*a^3*c^5*d*f^2*g*j \\
& *k - 36*a^3*c^5*d*e*f^2*k*1 + 36*a^3*c^5*d*e*f^2*j*m - 18*a*b^4*c^3*d^3*h*k \\
& *m - 9*a*b^4*c^3*d^3*g*1*m + 30*a^5*b*c^2*d*g*k*m^3 - 30*a^4*b^3*c*d*g*k*m^ \\
& 3 - 24*a^5*b*c^2*e*f*k*m^3 - 24*a^5*b*c^2*d*f*1*m^3 + 24*a^4*b*c^3*e*g*j^3* \\
& m + 24*a^4*b*c^3*d*h*j^3*m + 15*a^4*b^3*c*e*f*k*m^3 + 15*a^4*b^3*c*d*f*1*m^ \\
& 3 + 12*a^5*b*c^2*e*g*j*m^3 + 12*a^5*b*c^2*d*h*j*m^3 - 12*a^4*b*c^3*f*h*j^3* \\
& k - 12*a^4*b*c^3*f*g*j^3*1 + 6*a^4*b^3*c*e*g*j*m^3 + 6*a^4*b^3*c*d*h*j*m^3 \\
& + 6*a^4*b*c^3*e*h*j^3*1 + 36*a^3*c^5*d*e*g^2*h*1 - 24*a^5*b*c^2*f*g*h*m^3 + \\
& 15*a^4*b^3*c*f*g*h*m^3 - 9*a*b^6*c*d^2*g*j*m^2 - 6*a^3*b^4*c*d*g*k*1^3 - 6 \\
& *a*b^4*c^3*e^3*f*j*m + 3*a^3*b^4*c*e*g*j*1^3 + 3*a^3*b^4*c*e*f*k*1^3 + 3*a^ \\
& 3*b^4*c*d*h*j*1^3 + 3*a^3*b^4*c*d*e*1^3*m + 3*a*b^4*c^3*e^3*h*j*k + 3*a*b^4 \\
& *c^3*e^3*g*j*1 + 3*a*b^4*c^3*e^3*f*k*1 + 3*a*b^4*c^3*d*e^3*1*m - 36*a^3*c^5 \\
& *d*e*g*h^2*k + 30*a^2*b*c^5*d^3*f*j*m - 30*a*b^3*c^4*d^3*f*j*m + 24*a^3*b*c \\
& ^4*d*g^3*j*1 - 24*a^2*b*c^5*d^3*h*j*k - 24*a^2*b*c^5*d^3*f*k*1 - 24*a^2*b*c \\
& ^5*d^3*e*k*m + 15*a*b^3*c^4*d^3*h*j*k + 15*a*b^3*c^4*d^3*f*k*1 + 15*a*b^3*c \\
& ^4*d^3*e*k*m - 12*a^3*b*c^4*e*g^3*j*k + 12*a^2*b*c^5*d^3*g*j*1 + 6*a*b^3*c^ \\
& 4*d^3*g*j*1 + 3*a^3*b^4*c*f*g*h*1^3 + 3*a*b^4*c^3*e^3*g*h*m + 24*a^3*b*c^4* \\
& d*g^3*h*m - 12*a^3*b*c^4*f*g^3*h*k + 12*a^2*b*c^5*d^3*g*h*m - 9*a^3*b^4*c*d \\
& *e*j*m^3 + 6*a^3*b*c^4*e*g^3*h*1 + 6*a*b^3*c^4*d^3*g*h*m + 36*a^3*c^5*d*e*f \\
& *g*k^2 - 36*a^2*c^6*d^2*e*f*g*k - 24*a^4*b*c^3*d*e*j*1^3 - 18*a^3*b^4*c*e*f \\
& *g*m^3 - 18*a^3*b^4*c*d*f*h*m^3 - 3*a^2*b^5*c*d*e*j*1^3 - 3*a*b^3*c^4*d*e^3 \\
& *j*1 - 24*a^4*b*c^3*e*f*g*1^3 + 24*a^3*b*c^4*d*f*h^3*1 + 12*a^4*b*c^3*d*f*h \\
& *1^3 - 12*a^3*b*c^4*e*g*h^3*j - 12*a^3*b*c^4*e*f*h^3*k - 12*a^3*b*c^4*d*e*h \\
& ^3*m - 12*a*b^2*c^5*d^3*e*j*k + 6*a^3*b*c^4*d*g*h^3*k - 3*a^2*b^5*c*e*f*g*1 \\
& ^3 - 3*a^2*b^5*c*d*f*h*1^3 - 3*a*b^3*c^4*e^3*g*h*j - 3*a*b^3*c^4*e^3*f*h*k \\
& - 3*a*b^3*c^4*e^3*f*g*1 - 3*a*b^3*c^4*d*e^3*h*m + 24*a*b^2*c^5*d^3*e*h*1 - \\
& 12*a*b^2*c^5*d^3*f*h*k - 3*a*b^2*c^5*d^3*g*h*j - 3*a*b^2*c^5*d^3*f*g*1 - 3* \\
& a*b^2*c^5*d^3*e*g*m + 48*a^4*b*c^3*d*e*f*m^3 + 24*a^2*b*c^5*d*e*f^3*m + 21* \\
& a^2*b^5*c*d*e*f*m^3 - 12*a^2*b*c^5*e*f^3*g*j - 12*a^2*b*c^5*d*f^3*h*j - 9*a \\
& *b^3*c^4*d*e*f^3*m + 6*a^2*b*c^5*d*f^3*g*k + 12*a*b^2*c^5*d*e^3*f*1 - 6*a*b \\
& ^2*c^5*d*e^3*g*k + 3*a*b^2*c^5*d*e^3*h*j - 24*a^3*b*c^4*d*e*f*k^3 - 12*a^2* \\
& b*c^5*d*e*g^3*j - 3*a*b^5*c^2*d*e*f*k^3 + 3*a*b^2*c^5*e^3*f*g*h - 12*a^2*b* \\
& c^5*d*f*g^3*h + 9*a*b^2*c^5*d*e*f^3*j + 9*a*b*c^6*d^2*e^2*f*j + 3*a*b^4*c^3
\end{aligned}$$

$$\begin{aligned}
& *d*e*f*j^3 + 9*a*b*c^6*d^2*e^2*g*h + 9*a*b*c^6*d^2*e*f^2*h - 3*a*b^3*c^4*d* \\
& e*f*h^3 - 18*a*b*c^6*d^2*e*f*g^2 + 9*a*b*c^6*d*e^2*f^2*g + 3*a*b^2*c^5*d*e* \\
& f*g^3 - 36*a^4*b^2*c^2*e^2*k^1^2*m - 9*a^4*b^2*c^2*g^2*j^2*k*m + 45*a^3*b^3 \\
& *c^2*d^2*k^2*1^2*m + 36*a^4*b^2*c^2*e^2*j^1*m^2 + 9*a^4*b^2*c^2*g^2*j*k^2*1 + \\
& 9*a^3*b^3*c^2*e^2*j^2*1^2*m + 9*a^4*b^2*c^2*g^2*h*k^2*m - 9*a^4*b^2*c^2*f^2* \\
& h*1^2*m - 9*a^3*b^3*c^2*f^2*j^2*k^1 - 45*a^3*b^3*c^2*d^2*j*k*m^2 + 36*a^3*b \\
& ^2*c^3*d^2*j^2*k*m + 18*a^4*b^2*c^2*f^2*h*k*m^2 + 18*a^4*b^2*c^2*f^2*g*1^2*m^ \\
& 2 - 9*a^4*b^2*c^2*g^2*h*k*1^2 - 9*a^4*b^2*c^2*f^2*h^2*k^2*m - 9*a^4*b^2*c^2*f \\
& *g^2*1^2*m - 9*a^4*b^2*c^2*e*j^2*k^2*1 - 9*a^4*b^2*c^2*d*j^2*k^2*m - 9*a^3* \\
& b^3*c^2*e^2*j*k*1^2 - 9*a^2*b^4*c^2*d^2*j^2*k*m - 36*a^3*b^2*c^3*d^2*j*k^2* \\
& 1 - 27*a^3*b^2*c^3*e^2*h^2*k*m + 9*a^4*b^2*c^2*g*h^2*j*1^2 + 9*a^4*b^2*c^2* \\
& f*h^2*k*1^2 - 9*a^4*b^2*c^2*f*g^2*k*m^2 - 9*a^4*b^2*c^2*e*g^2*1^2*m^2 - 9*a^4 \\
& *b^2*c^2*d*j^2*k*1^2 + 9*a^4*b^2*c^2*d*h^2*1^2*m - 9*a^3*b^3*c^2*e^2*g*1^2* \\
& m + 9*a^2*b^4*c^2*e^2*h^2*k*m + 9*a^2*b^4*c^2*d^2*j*k^2*1 - 45*a^3*b^3*c^2* \\
& e^2*h*j*m^2 + 36*a^4*b^2*c^2*e*h^2*j*m^2 + 36*a^3*b^2*c^3*e^2*h*j^2*m - 36* \\
& a^3*b^2*c^3*d^2*h*k^2*m + 36*a^2*b^3*c^3*d^2*g^2*1^2*m - 9*a^4*b^2*c^2*f*h*j^ \\
& 2*1^2 - 9*a^4*b^2*c^2*d*h^2*k*m^2 + 9*a^3*b^3*c^2*f^2*h*j*1^2 + 9*a^3*b^3*c \\
& ^2*e^2*f*1^2*m^2 + 9*a^3*b^3*c^2*e*h^2*j^2*m - 9*a^3*b^2*c^3*f^2*h^2*j*1 - 9* \\
& a^2*b^4*c^2*e^2*h*j^2*m + 9*a^2*b^4*c^2*d^2*h*k^2*m + 36*a^3*b^2*c^3*d^2*h* \\
& k*1^2 - 27*a^4*b^2*c^2*e*g*j^2*m^2 - 27*a^4*b^2*c^2*d*h*j^2*m^2 - 9*a^4*b^2 \\
& *c^2*d*h*k^2*1^2 - 9*a^3*b^3*c^2*e*f^2*k*m^2 - 9*a^3*b^3*c^2*d*f^2*1^2*m^2 + \\
& 9*a^3*b^2*c^3*f^2*h*j^2*k + 9*a^3*b^2*c^3*f^2*g*j^2*1 - 9*a^3*b^2*c^3*e^2*g \\
& *k^2*1 - 9*a^3*b^2*c^3*e^2*f*k^2*m - 9*a^3*b^2*c^3*d^2*f*1^2*m - 9*a^2*b^4* \\
& c^2*d^2*h*k*1^2 + 9*a^2*b^3*c^3*d^2*h^2*k*1 - 81*a^3*b^2*c^3*d^2*g*j*m^2 + \\
& 54*a^2*b^4*c^2*d^2*g*j*m^2 - 45*a^3*b^3*c^2*d*g^2*j*m^2 - 45*a^2*b^3*c^3*d^ \\
& 2*g*j^2*m + 36*a^3*b^2*c^3*d^2*f*k*m^2 + 36*a^3*b^2*c^3*d*g^2*j^2*m + 18*a^ \\
& 3*b^2*c^3*e^2*g*j*1^2 + 18*a^3*b^2*c^3*e^2*f*k*1^2 + 18*a^3*b^2*c^3*d*e^2*1 \\
& ^2*m - 9*a^4*b^2*c^2*d*f*k^2*m^2 - 9*a^3*b^3*c^2*f^2*g*h*m^2 - 9*a^3*b^3*c^ \\
& 2*d*h^2*j*1^2 - 9*a^3*b^2*c^3*f^2*g*j*k^2 - 9*a^3*b^2*c^3*d^2*e*1^2*m^2 - 9*a \\
& ^3*b^2*c^3*f*g^2*h^2*m - 9*a^3*b^2*c^3*e*g^2*j^2*1 - 9*a^3*b^2*c^3*e*f^2*k^ \\
& 2*1 - 9*a^2*b^4*c^2*d^2*f*k*m^2 - 9*a^2*b^4*c^2*d*g^2*j^2*m - 9*a^2*b^3*c^3 \\
& *e^2*h^2*j*k - 9*a^2*b^2*c^4*d^2*f^2*k*m - 27*a^2*b^2*c^4*d^2*g^2*j*1 - 9*a \\
& ^3*b^3*c^2*f*g*h^2*1^2 + 9*a^3*b^2*c^3*e*g^2*j*k^2 - 9*a^3*b^2*c^3*e*f^2*j* \\
& 1^2 - 9*a^3*b^2*c^3*d*h^2*j^2*k - 9*a^3*b^2*c^3*d*f^2*k*1^2 - 9*a^3*b^2*c^3 \\
& *d*e^2*k*m^2 - 9*a^2*b^3*c^3*e^2*g*h^2*m - 9*a^2*b^3*c^3*d^2*h*j*k^2 - 9*a^ \\
& 2*b^3*c^3*d^2*f*k^2*1 - 9*a^2*b^3*c^3*d^2*e*k^2*m + 36*a^3*b^3*c^2*d*e*j^2* \\
& m^2 + 36*a^3*b^2*c^3*e^2*f*h*m^2 - 27*a^2*b^2*c^4*d^2*g^2*h*m + 9*a^3*b^3*c \\
& ^2*e*f*h^2*m^2 + 9*a^3*b^2*c^3*f*g^2*h*k^2 - 9*a^2*b^4*c^2*e^2*f*h*m^2 + 9* \\
& a^2*b^3*c^3*d^2*e*k*1^2 - 9*a^2*b^2*c^4*e^2*f^2*h*m - 45*a^2*b^3*c^3*d^2*g* \\
& h*1^2 - 36*a^3*b^2*c^3*e*f^2*g*m^2 + 36*a^3*b^2*c^3*d*g^2*h*1^2 - 36*a^3*b^ \\
& 2*c^3*d*f^2*h*m^2 + 36*a^2*b^2*c^4*d^2*g*h^2*1 - 9*a^3*b^2*c^3*e*g*h^2*k^2 \\
& + 9*a^2*b^4*c^2*e*f^2*g*m^2 - 9*a^2*b^4*c^2*d*g^2*h*1^2 + 9*a^2*b^4*c^2*d*f \\
& ^2*h*m^2 + 9*a^2*b^3*c^3*e^2*g*h*k^2 + 9*a^2*b^3*c^3*d*g^2*h^2*1 - 9*a^2*b^ \\
& 3*c^3*d*e^2*j*1^2 - 9*a^2*b^2*c^4*e^2*g^2*h*k - 9*a^2*b^2*c^4*e^2*f*g^2*m - \\
& 9*a^2*b^2*c^4*d^2*f*j^2*k - 9*a^2*b^2*c^4*d^2*f*h^2*m - 9*a^2*b^2*c^4*d^2*
\end{aligned}$$

$$\begin{aligned}
& e^j \cdot 2^1 - 45a^2b^3c^3d^2fg^2m^2 + 36a^3b^2c^3d^2fg^2m^2 - 27a^3b^2c^3d^2fgh^2l^2 + 18a^2b^2c^4d^2e^j k^2 + 9a^2b^4c^2d^2fgh^2l^2 \\
& - 9a^2b^4c^2d^2fg^2m^2 - 9a^2b^3c^3e^2fg^2l^2 + 9a^2b^2c^4e^2fgh^2j + 9a^2b^2c^4e^2fgh^2k - 9a^2b^2c^4e^2fg^2l^2 - 9a^2b^2c^4d^2fg^2m \\
& - 9a^2b^2c^4d^2e^2j^2k + 9a^2b^2c^4d^2e^2h^2m + 18a^4b^2c^2f^2j^2m^2 + 18a^3b^2c^3e^2h^2l^2 - 9a^2b^4c^2e^2h^2l^2 + 18a^2b^2c^4d^2g^2k^2 + 12a^6c^2j^3k^1m + 3a^6b^2j^3k^1m^3 \\
& - 12a^6c^2g^3k^1m - 12a^5c^3g^3k^1m - 24a^6c^2e^3k^1m - 24a^4c^4e^3k^1m + 12a^6c^2h^3j^3k^1m + 12a^6c^2f^3j^1l^3m + 12a^5c^3h^3j^3k^1 \\
& - 3a^5b^3h^3j^3k^1m^3 - 3a^5b^3g^3j^1m^3 - 3a^5b^3f^3k^1m^3 + 12a^6c^2g^3h^1l^3m + 12a^5c^3g^3h^3l^1m - 12a^6c^2e^3j^3k^1m^3 \\
& - 12a^6c^2d^3j^1m^3 - 12a^5c^3f^3j^3k^1 - 12a^5c^3e^3j^3k^1m - 12a^5c^3d^3j^3l^1m - 12a^4c^4f^3j^3k^1 + 24a^6c^2f^3h^3k^1m^3 + 24a^6c^2f^3g^1m^3 \\
& + 24a^4c^4f^3h^3k^1m + 24a^4c^4f^3g^1m - 12a^6c^2g^3h^3j^1m^3 - 12a^6c^2e^3h^1m^3 - 12a^5c^3g^3h^3j^3m + 3b^6c^2d^3j^3k^1 + 3a^4b^4e^3j^3k^1m^3 + 3a^4b^4d^3j^1m^3 \\
& - 24a^5c^3d^3j^3k^1 - 24a^3c^5d^3j^3k^1 - 6a^4b^4e^3h^1m^3 + 3b^6c^2d^3h^3k^1m + 3b^6c^2d^3g^1m + 3a^6b^3c^2j^2l^3m + 3a^4b^4g^3h^3j^1m^3 + 3a^4b^4f^3h^3k^1m^3 \\
& + 3a^4b^4f^3g^1m^3 - 24a^5c^3d^3h^3k^1m - 24a^3c^5d^3h^3k^1m + 12a^5c^3g^3h^3j^3k^1 + 12a^5c^3f^3g^3k^1l + 12a^5c^3e^3h^3k^1l + 12a^5c^3e^3g^3k^1m \\
& + 12a^4c^4g^3h^3j^3k + 12a^4c^4f^3g^3k^1l + 12a^4c^4f^3g^3j^1m + 12a^4c^4e^3g^3k^1m + 12a^4c^4d^3g^3l^1m + 12a^3c^5d^3g^3l^1m + 3a^6b^3c^2j^3k^1m^2 \\
& - 9a^6b^3c^2h^2l^1m^3 - 3a^5b^3c^2j^4k^1 + 24a^5c^3e^3g^3j^1l^3 + 24a^5c^3e^3f^3k^1l^3 + 24a^5c^3d^3e^3l^3m + 24a^3c^5e^3e^3g^3j^1l + 24a^3c^5e^3f^3k^1l \\
& + 24a^3c^5d^3e^3l^1m - 12a^5c^3d^3h^3j^1l^3 - 12a^5c^3d^3g^3k^1l^3 - 12a^4c^4e^3h^3j^3k - 12a^4c^4d^3h^3j^3l - 12a^3c^5e^3h^3j^3k - 12a^3c^5e^3f^3j^3m \\
& + 9a^4b^3c^3g^4l^1m + 6b^5c^3d^3f^3j^3m + 6a^3b^5d^3g^3k^1m^3 - 3b^5c^3d^3h^3j^3k - 3b^5c^3d^3g^3j^3l - 3b^5c^3d^3f^3k^1 - 3b^5c^3d^3e^3k^1m - 3a^3b^5e^3g^3j^1m^3 \\
& - 3a^3b^5e^3f^3k^1m^3 - 3a^3b^5d^3h^3j^1m^3 - 3a^3b^5d^3f^3l^1m^3 - 12a^5c^3f^3g^3h^1l^3 - 12a^4c^4f^3g^3h^3l^1 - 12a^4c^4e^3g^3h^3m - 12a^3c^5e^3g^3h^3m \\
& - 9a^6b^3c^2g^3k^2m^3 - 3b^5c^3d^3g^3h^3m + 3a^6b^3c^2f^3l^3m^2 - 3a^3b^5f^3g^3h^3m^3 + 12a^5c^3d^3e^3j^1m^3 + 12a^4c^4e^3f^3j^3k + 12a^4c^4d^3g^3j^3k \\
& + 12a^4c^4d^3f^3j^3l + 12a^4c^4d^3e^3j^3m + 12a^3c^5e^3f^3j^3k + 12a^3c^5d^3f^3j^3l - 9a^6b^3c^2e^3l^2m^3 - 24a^5c^3e^3f^3g^3m^3 - 24a^5c^3d^3f^3h^3m^3 \\
& - 24a^3c^5e^3f^3g^3m - 24a^3c^5d^3f^3h^3m - 15a^2b^3c^5d^4l^1m + 15a^2b^3c^4d^4l^1m + 12a^4c^4f^3g^3h^3j^3 + 12a^3c^5f^3g^3h^3j + 12a^3c^5e^3f^3h^3l + 9a^3b^3c^4f^4k^1l \\
& - 9a^3b^3c^4f^4j^3m + 3b^4c^4d^3e^3j^3k + 3a^5b^2c^3g^3j^1l^4 + 3a^5b^2c^3f^3k^1l^4 + 3a^5b^2c^3d^3l^4m - 3a^5b^3c^2h^3j^3k^4 - 3a^5b^3c^2f^3k^4l \\
& - 3a^5b^3c^2e^3k^4m - 3a^4b^3c^3h^4j^3k + 3a^2b^6d^3e^3j^1m^3 + 3a^4b^4c^3e^4k^1m + 24a^4c^4d^3e^3j^3k^3 + 24a^2c^6d^3e^3j^3k - 6b^4c^4d^3e^3h^1l + 3b^4c^4d^3g^3h^3j \\
& + 3b^4c^4d^3f^3h^3k + 3b^4c^4d^3f^3g^1l + 3b^4c^4d^3e^3g^3m - 3a^4b^3c^3g^3h^4m + 3a^2b^6e^3f^3g^3m^3 + 3a^2b^6d^3f^3h^3m^3 - 3a^4b^6c^3e^3j^1m^2 + 24a^4c^4d^3f^3h^3k^3 \\
& + 24a^2c^6d^3f^3h^3k - 12a^4c^4e^3f^3
\end{aligned}$$

$$\begin{aligned}
& b^6c^6d^4h^*j - 9a^*b^*c^6d^4g^*k + 9a^*b^*c^6d^4f^*l + 9a^*b^*c^6d^4e^*m + \\
& 12a^*c^7d^3e^*f^*g - 3a^*b^*c^6d^4e^4j - 3a^*b^*c^6e^4f^*g - 3a^*b^*c^6d^4e^* \\
& f^4 + 18a^6c^2h^2j^*l^*m^2 - 18a^6c^2h^*j^2l^2m + 18a^6c^2f^*k^2l^2m + 36a^5c^3e^2k^*l^2m + \\
& 18a^6c^2g^*j^*k^2m^2 + 18a^6c^2e^*k^2l^2m^2 + 18a^5c^3g^2j^2k^*m + 18a^6c^2e^*j^*l^2m^2 + 18a^6c^2d^*k^*l^2 \\
& m^2 - 18a^5c^3e^2j^*l^*m^2 - 18a^6c^2f^*h^*l^2m^2 + 18a^5c^3f^2h^*l^2m - 36a^5c^3f^2h^*k^*m^2 - \\
& 36a^5c^3f^2g^*l^*m^2 + 18a^5c^3g^2h^*k^*l^2 - 18a^5c^3g^*h^2k^2l + 18a^5c^3f^*h^2k^2m + 18a^5c^3f^*g^2l^2m + \\
& 18a^5c^3e^*j^2k^2l + 18a^5c^3d^*j^2k^2m - 18a^4c^4d^2j^2k^*m + 36a^4c^4d^2j^*k^2l + 18a^5c^3f^*g^2k^*m^2 + 18a^5c^3e^*g^2l^2m^2 + \\
& 18a^5c^3d^*j^2k^*l^2 - 18a^4c^4f^2g^2k^*m + 36a^4c^4d^2h^*k^2m + 18a^5c^3f^*h^*j^2l^2 - 18a^5c^3e^*h^2j^*m^2 + 18a^5c^3d^*h^2k^*m^2 + \\
& 18a^4c^4f^2h^2j^*l - 18a^4c^4e^2h^*j^2m - 18a^5c^3e^*g^*k^2l^2 + 18a^5c^3d^*h^*k^2l^2 + 18a^4c^4e^2g^*k^2l + 18a^4c^4e^2f^*k^2m - \\
& 18a^4c^4d^2h^*k^*l^2 + 18a^4c^4d^2f^*l^2m - 36a^4c^4e^2g^*j^*l^2 - 36a^4c^4e^2f^*k^*l^2 - 36a^4c^4d^2e^2l^2m + 18a^5c^3d^*f^*k^2m^2 + \\
& 18a^4c^4f^2g^*j^*k^2 + 18a^4c^4d^2g^*j^*m^2 - 18a^4c^4d^2f^*k^*m^2 + 18a^4c^4d^2e^*l^*m^2 - 18a^4c^4f^*g^2j^2k + 18a^4c^4f^*g^2h^2m + \\
& 18a^4c^4e^*g^2j^2l + 18a^4c^4e^*f^2k^2l - 18a^4c^4d^*g^2j^2m - 18a^4c^4d^*f^2k^2m + 18a^3c^5d^2f^2k^*m + 3a^4b^2c^2h^4k^*m - \\
& 3a^3b^3c^2g^4l^*m + 18a^4c^4e^*f^2j^*l^2 + 18a^4c^4d^*h^2j^2k + 18a^4c^4d^*f^2k^*l^2 + 18a^4c^4d^*e^2k^*m^2 - 18a^3c^5e^2f^2j^*l + \\
& 12a^5b^2c^2g^2k^*m^3 - 9a^5b^*c^2h^3j^*m^2 - 9a^5b^*c^2f^2l^3m + 3a^5b^*c^2h^2k^3l + 3a^4b^3c^*h^3j^*m^2 + 3a^4b^3c^*f^2l^3m - \\
& 18a^4c^4e^2f^*h^*m^2 + 18a^3c^5e^2f^2h^*m + 15a^5b^*c^2e^2l^3m - 15a^4b^3c^*e^2l^3m - 9a^5b^*c^2g^2k^*l^3 - 9a^4b^*c^3g^3j^2m - 3a^5b^2c^*g^*k^2l^3 + \\
& 3a^5b^*c^2h^*j^3l^2 + 3a^4b^3c^*g^2k^*l^3 - 3a^3b^4c^*g^3j^*m^2 + 36a^4c^4e^*f^2g^*m^2 + 36a^4c^4d^*f^2h^*m^2 + 18a^4c^4e^*g^*h^2k^2 - 18a^4c^4d^*g^2h^*l^2 - \\
& 18a^4c^4d^*f^2j^2k^2 + 18a^3c^5e^2g^2h^*k + 18a^3c^5e^2f^*g^2m - 18a^3c^5d^2g^*h^2l + 18a^3c^5d^2f^*j^2k + 18a^3c^5d^2f^*h^2m + 18a^3c^5d^2e^*j^2l - \\
& 12a^2b^2c^4e^4k^*m + 9a^4b^3c^*f^*j^3m^2 - 9a^4b^2c^2f^*j^4m - 6a^5b^2c^*f^*j^2m^3 + 6a^5b^*c^2f^2j^*m^3 - 6a^5b^*c^2f^*j^3m^2 - 6a^4b^3c^*f^2j^*m^3 + \\
& 6a^4b^*c^3f^3j^*m^2 - 6a^4b^*c^3f^2j^3m + 6a^2b^3c^3f^4j^*m + 3a^3b^2c^3g^4j^*l + 3a^2b^5c^*f^3j^*m^2 - 3a^2b^3c^3f^4k^*l - 36a^3c^5d^2e^*j^*k^2 - 18a^4c^4d^*f^*g^2m^2 + 18a^3c^5e^*f^2g^2l + 18a^3c^5d^*f^2g^2m + 18a^3c^5d^*e^2j^2k + 18a^3b^4c^*d^2k^*m^3 + 15a^3b^*c^4e^3j^2m + 12a^5b^2c^*d^*k^2m^3 - 9a^5b^*c^2f^*j^2l^3 - 9a^4b^*c^3e^2k^3l + 3a^5b^*c^2e^*k^3l^2 + 3a^4b^3c^*f^*j^2l^3 + 3a^4b^*c^3g^2j^3k - 3a^3b^4c^*f^2j^*l^3 + 3a^3b^2c^3g^4h^*m + 3a^*b^5c^2e^3j^2m - 36a^3c^5d^2f^*h^*k^2 - 21a^3b^*c^4d^3j^*m^2 - 21a^*b^5c^2d^3j^*m^2 + 18a^3c^5e^2f^*h^*j^2 - 18a^3c^5e^*f^2h^2j + 18a^3c^5d^*f^2h^2k + 18a^*b^4c^3d^3j^2m + 15a^4b^*c^3d^2k^*l^3 - 9a^5b^*c^2d^*k^2l^3 - 9a^4b^*c^3g^3h^*l^2 - 9a^4b^*c^3f^2j^*k^3 + 3a^4b^3c^*d^*k^2l^3 + 3a^2b^5c^*d^2k^*l^3 - 18a^3c^5d^2e^*g^*l^2 + 18a^3
\end{aligned}$$

$$\begin{aligned}
& *c^5*d*e^2*h*k^2 + 18*a^3*b^4*c*e^2*h*m^3 - 18*a^2*c^6*d^2*e^2*h*k + 18*a^2 \\
& *c^6*d^2*e^2*g*1 + 18*a^2*c^6*d^2*e^2*f*m + 15*a^5*b*c^2*e*h^2*m^3 - 15*a^4 \\
& *b^3*c*e*h^2*m^3 - 9*a^4*b*c^3*f*g^3*m^2 - 9*a^3*b*c^4*f^3*h^2*1 + 3*a^4*b^ \\
& 2*c^2*e*j*k^4 + 3*a^4*b*c^3*g*h^3*k^2 + 3*a^3*b*c^4*f^2*g^3*m + 36*a^3*c^5* \\
& d*e^2*f*1^2 + 18*a^3*c^5*d*f*g^2*j^2 + 18*a^2*c^6*d^2*f^2*g*j + 18*a^2*c^6* \\
& d^2*e*f^2*1 - 9*a^3*b^2*c^3*e*h^4*1 - 9*a^3*b*c^4*d^2*j^3*k + 6*a^4*b*c^3*e \\
& ^2*h*1^3 - 6*a^4*b*c^3*e*h^3*1^2 + 6*a^3*b*c^4*e^3*h*1^2 - 6*a^3*b*c^4*e^2* \\
& h^3*1 + 3*a^4*b^2*c^2*f*h*k^4 + 3*a^4*b*c^3*d*j^3*k^2 - 3*a^3*b^4*c*e*h^2*1 \\
& ^3 + 3*a^2*b^5*c*e^2*h*1^3 + 3*a^2*b^2*c^4*f^4*h*k + 3*a^2*b^2*c^4*f^4*g*1 \\
& + 3*a*b^5*c^2*e^3*h*1^2 - 3*a*b^4*c^3*e^3*h^2*1 - 21*a^4*b*c^3*d^2*g*m^3 - \\
& 21*a^2*b^5*c*d^2*g*m^3 + 18*a^3*b^4*c*d*g^2*m^3 + 18*a^2*c^6*d*e^2*f^2*k + \\
& 18*a*b^4*c^3*d^3*h*1^2 + 15*a^3*b*c^4*e^3*f*m^2 + 15*a^2*b*c^5*d^3*h^2*1 - \\
& 15*a*b^3*c^4*d^3*h^2*1 - 9*a^4*b*c^3*e*h^2*k^3 - 9*a^3*b*c^4*f^3*g*k^2 - 9* \\
& a^2*b*c^5*e^3*f^2*m + 3*a^3*b*c^4*f^2*h^3*j + 3*a*b^5*c^2*e^3*f*m^2 + 3*a*b \\
& ^3*c^4*e^3*f^2*m + 18*a*b^4*c^3*d^3*f*m^2 + 15*a^4*b*c^3*d*g^2*1^3 + 12*a*b \\
& ^2*c^5*d^3*f^2*m - 9*a^3*b*c^4*e^2*h*j^3 - 9*a^3*b*c^4*e*f^3*1^2 - 9*a^2*b* \\
& c^5*e^3*g^2*k + 3*a^3*b*c^4*f*g^3*j^2 + 3*a^2*b^5*c*d*g^2*1^3 + 3*a^2*b*c^5 \\
& *e^2*f^3*1 - 3*a*b^4*c^3*e^3*g*k^2 + 3*a*b^3*c^4*e^3*g^2*k + 18*a^2*c^6*d^2 \\
& *e*g*h^2 - 18*a^2*c^6*d*e^2*g^2*h - 12*a^4*b^2*c^2*d*f*1^4 - 9*a^2*b^2*c^4* \\
& d*g^4*k + 9*a*b^3*c^4*d^2*g^3*k + 6*a^3*b^3*c^2*d*g*k^4 + 6*a^3*b*c^4*d^2*g \\
& *k^3 - 6*a^3*b*c^4*d*g^3*k^2 + 6*a^2*b*c^5*d^3*g*k^2 - 6*a^2*b*c^5*d^2*g^3* \\
& k - 6*a*b^3*c^4*d^3*g*k^2 - 6*a*b^2*c^5*d^3*g^2*k - 3*a^3*b^3*c^2*e*f*k^4 + \\
& 3*a^3*b^2*c^3*e*g*j^4 + 3*a^3*b^2*c^3*d*h*j^4 + 3*a*b^5*c^2*d^2*g*k^3 + 15 \\
& *a^2*b*c^5*d^3*e*1^2 - 15*a*b^3*c^4*d^3*e*1^2 - 9*a^3*b*c^4*d*g^2*j^3 - 9*a \\
& ^2*b*c^5*e^3*f*j^2 - 3*a*b^4*c^3*d^2*g*j^3 + 3*a*b^3*c^4*e^3*f*j^2 - 3*a*b^ \\
& 2*c^5*e^3*f^2*j + 12*a*b^2*c^5*d^3*f*j^2 - 9*a^2*b*c^5*d*e^3*k^2 + 3*a^2*b* \\
& c^5*e^2*g^3*h + 3*a*b^3*c^4*d*e^3*k^2 - 9*a^2*b*c^5*d^2*g*h^3 - 3*a^2*b^3*c \\
& ^3*d*e*j^4 + 3*a^2*b*c^5*e*f^3*h^2 + 3*a*b^3*c^4*d^2*g*h^3 + 3*a^2*b^2*c^4* \\
& d*f*h^4 - 9*a^7*c*k^2*1^2*m^2 - 6*a^6*c^2*j^2*k^3*m - 3*a^6*b^2*h*1^2*m^3 + \\
& 3*a^5*b^3*h^2*1*m^3 - 6*a^6*c^2*g^2*k*m^3 - 6*a^6*c^2*h*k^3*1^2 + 6*a^5*c^ \\
& 3*h^3*j^2*m + 6*a^6*c^2*g*k^2*1^3 - 6*a^6*c^2*f*k^3*m^2 - 6*a^5*c^3*h^2*j^3 \\
& *1 - 6*a^5*c^3*g^3*j*m^2 + 6*a^5*c^3*f^2*k^3*m + 3*a^5*b^3*g*k^2*m^3 - 3*a^ \\
& 4*b^4*g^2*k*m^3 + 12*a^6*c^2*f*j^2*m^3 + 12*a^4*c^4*f^3*j^2*m + 3*a^5*b^3*e \\
& *1^2*m^3 + 3*a^3*b^5*e^2*1*m^3 - 6*a^6*c^2*d*k^2*m^3 - 6*a^5*c^3*f^2*j*1^3 \\
& + 6*a^5*c^3*d^2*k*m^3 - 6*a^5*c^3*g*j^3*k^2 + 6*a^4*c^4*e^3*j*m^2 - 3*b^6*c \\
& ^2*d^3*j^2*m - 3*a^4*b^4*f*j^2*m^3 + 3*a^3*b^5*f^2*j*m^3 + 6*a^5*c^3*f*j^2* \\
& k^3 + 6*a^5*c^3*f*h^3*m^2 - 6*a^5*c^3*e*j^3*1^2 + 6*a^4*c^4*g^3*h^2*1 - 6*a \\
& ^4*c^4*f^2*h^3*m + 6*a^4*c^4*e^2*j^3*1 + 6*a^3*c^5*d^3*j^2*m - 3*a^4*b^4*d* \\
& k^2*m^3 - 3*a^2*b^6*d^2*k*m^3 + 6*a^5*c^3*e^2*h*m^3 - 6*a^4*c^4*g^2*h^3*k - \\
& 6*a^4*c^4*f^3*h*1^2 + 12*a^5*c^3*e*h^2*1^3 + 12*a^3*c^5*e^3*h^2*1 - 3*b^6* \\
& c^2*d^3*h*1^2 + 3*b^5*c^3*d^3*h^2*1 - 3*a^5*b^2*c*j^4*m^2 + 3*a^3*b^5*e*h^2 \\
& *m^3 - 3*a^2*b^6*e^2*h*m^3 + 6*a^5*c^3*d*g^2*m^3 - 6*a^4*c^4*e^2*h*k^3 - 6* \\
& a^4*c^4*f*h^3*j^2 + 6*a^4*c^4*e*g^3*1^2 + 6*a^3*c^5*f^3*g^2*k - 6*a^3*c^5*e \\
& ^2*g^3*1 + 6*a^3*c^5*d^3*h*1^2 - 3*b^6*c^2*d^3*f*m^2 - 3*b^4*c^4*d^3*f^2*m \\
& + 6*a^4*c^4*d^2*g*1^3 + 6*a^4*c^4*e*h^2*j^3 - 6*a^4*c^4*d*h^3*k^2 - 6*a^3*c
\end{aligned}$$

$$\begin{aligned}
& ^5f^2g^3j - 6a^3c^5e^3g^2k^2 + 6a^3c^5d^3f^2m^2 + 6a^3c^5d^2h^3k - 6a^2c^6d^3f^2m + 4a^5b^2c^3h^3m^3 + 3b^5c^3d^3g^2k^2 - 3b^4c^4d^3g^2k - 3a^2b^6d^3g^2m^3 + a^5b^2c^2j^3k^3 + 12a^4c^4d^3g^2k^3 + 12a^2c^6d^3g^2k + 6a^5b^2c^2h^3l^3 + 5a^5b^2c^2g^3m^3 - 5a^4b^3c^3g^3m^3 + 3b^5c^3d^3e^2l^2 + 3b^3c^5d^3e^2l - 3a^5b^2c^3h^2l^4 + a^4b^3c^3h^3l^3 + 12a^5b^2c^3f^2m^4 - 6a^3c^5d^2g^3j^3 + 6a^3c^5d^2f^3k^2 + 6a^3b^4c^3f^3m^3 + 6a^2c^6e^3f^2j - 6a^2c^6d^2f^3k - 3b^4c^4d^3f^2j^2 + 3b^3c^5d^3f^2j - 3a^2b^2c^4f^5m - 7a^4b^3c^3e^3m^3 - 7a^2b^5c^3e^3m^3 + 6a^4b^3c^3g^3k^3 - 6a^3c^5e^2g^3h^2 - 6a^2c^6d^3f^2j^2 + 5a^4b^3c^3f^3l^3 + a^4b^3c^3h^3j^3 + a^2b^5c^3f^3l^3 + 6a^3c^5d^2g^2h^3 - 6a^2c^6e^2f^3h - 3a^3b^4c^3e^2l^4 - 3a^2b^4c^3e^4l^2 - 7a^3b^3c^4d^3l^3 - 7a^2b^5c^2d^3l^3 + 6a^3b^3c^4f^3j^3 + 5a^3b^3c^4e^3k^3 + 3b^3c^5d^3e^2h^2 - 3b^2c^6d^3e^2h + a^2b^5c^2e^3k^3 + 12a^2b^2c^5d^4k^2 - 6a^2c^6d^2f^3g^2 + 6a^2b^4c^3d^3k^3 - 3a^4b^2c^2d^3k^5 + a^3b^3c^4g^3h^3 + 5a^2b^3c^5d^3j^3 - 5a^2b^3c^4d^3j^3 - 9a^2c^7d^2e^2f^2 + 6a^2b^3c^5e^3h^3 - 3a^2b^2c^5e^4h^2 + a^2b^3c^5f^3g^3 + a^2b^3c^4e^3h^3 + 4a^2b^2c^5d^3h^3 - 3a^2b^2c^5d^2g^4 - 6a^7c^2j^3l^3m^2 + 6a^7c^2h^3l^2m^3 + 6a^6c^2j^3k^4l + 6a^6c^2h^3k^4m - 6a^5c^3h^4k^3m + 3a^6b^2h^3k^4m + 3a^6b^2g^3l^4m - 3b^5c^3d^4l^3m - 6a^6c^2g^3j^4l^4 - 6a^6c^2f^3k^4l^4 - 6a^6c^2d^4l^4m + 6a^5c^3h^3j^4k + 6a^5c^3g^3j^4l + 6a^5c^3f^3j^4m - 6a^4c^4g^4j^3l + 6a^3c^5e^4k^3m + 6a^5b^3f^3j^3m^4 - 6a^4c^4g^4h^3m + 3b^7c^3d^3j^3m^2 - 3a^5b^3e^3k^3m^4 - 3a^5b^3d^3l^3m^4 + 3b^4c^4d^4j^3l - 3a^5b^3g^3h^3m^4 - 6a^5c^3e^3j^3k^4 + 6a^2c^6d^4j^3l + 3b^4c^4d^4h^3m + 6a^6c^2e^3g^3m^4 + 6a^6c^2d^3h^3m^4 + 6a^6b^3c^3j^3m^3 - 6a^5c^3f^3h^3k^4 + 6a^4c^4g^3h^4j + 6a^4c^4f^3h^4k + 6a^4c^4e^3h^4l + 6a^4c^4d^3h^4m - 6a^3c^5f^4h^3k - 6a^3c^5f^4g^3l + 6a^2c^6d^4h^3m + 3a^5b^2c^2j^5m + a^6b^3c^3k^3l^3 + 3a^4b^4e^3g^3m^4 + 3a^4b^4d^3h^3m^4 + 6b^3c^5d^4g^3k - 3b^3c^5d^4h^3j - 3b^3c^5d^4f^3l - 3b^3c^5d^4e^3m + 3a^2b^7d^2g^3m^3 + 6a^5c^3d^3f^3l^4 - 6a^4c^4e^3g^3j^4 - 6a^4c^4d^3h^3j^4 + 6a^3c^5e^3g^4j + 6a^3c^5d^3g^4k - 6a^2c^6e^4g^3j - 6a^2c^6e^4f^3k - 6a^2c^6d^3e^4m + 3a^4b^3c^3h^5l + 6a^3c^5f^3g^4h - 3a^3b^5d^3e^3m^4 + 3b^2c^6d^4e^3j + 3a^5b^3c^2g^3k^5 + 3a^3b^3c^4g^5k + 8a^2b^6c^3d^3m^3 + 3b^2c^6d^4f^3h - 3a^5b^2c^3e^3l^5 - 3a^2b^2c^5e^5l - 6a^3c^5d^3f^3h^4 + 6a^2c^6e^3f^4g + 6a^2c^6d^3f^4h + 3a^4b^3c^3f^3j^5 + 3a^2b^3c^5f^5j + 6a^2c^7d^3e^2h - 6a^2c^7d^2e^3g + 3a^3b^3c^4e^3h^5 + 6a^2b^3c^6d^3g^3 + 3a^2b^3c^5d^3g^5 + a^2b^3c^6e^3f^3 - 9a^6c^2j^2k^2l^2 - 9a^6c^2h^2k^2m^2 - 9a^6c^2g^2l^2m^2 - 18a^5c^3f^2j^2m^2 - 9a^5c^3h^2j^2k^2 - 9a^5c^3g^2j^2l^2 - 9a^5c^3f^2k^2l^2 - 9a^5c^3e^2k^2m^2 - 9a^5c^3d^2l^2m^2 - 9a^5c^3g^2h^2m^2 - 9a^4c^4e^2j^2k^2 - 9a^4c^4d^2j^2l^2 - 18a^4c^4e^2h^2l^2 - 9a^4c^4g^2h^2j^2 - 9a^4c^4f^2h^2k^2 - 9a^4c^4f^2g^2l^2 - 9a^4c^4e^2g^2m^2 - 9a^4c^4d^2h^2m^2 - 18a^3c^5d^2g^2k^2 - 9a^3c^5e^2g^2j^2 - 9a^3c^5e^2f^2k^2 - 9a^3c^5d^2h^2j^2 - 9a^3c^5d^2f^2l^2 - 9
\end{aligned}$$

$$\begin{aligned}
& a^3c^5d^2e^2m^2 - 3a^4b^2c^2h^4l^2 - 18a^4b^2c^2f^3m^3 + 12a^3b^2c^3f^4m^2 - 9a^3c^5f^2g^2h^2 + 4a^4b^2c^2g^3l^3 - 3a^2b^4c^2f^4m^2 + 14a^3b^3c^2e^3m^3 - 5a^3b^3c^2f^3l^3 - 3a^4b^2c^2g^2k^4 - 3a^3b^2c^3g^4k^2 + a^3b^3c^2g^3k^3 - 20a^2b^4c^2d^3m^3 - 18a^3b^2c^3e^3l^3 + 16a^3b^2c^3d^3m^3 + 12a^4b^2c^2e^2l^4 + 12a^2b^2c^4e^4l^2 - 9a^2c^6d^2e^2j^2 + 6a^2b^4c^2e^3l^3 + 4a^3b^2c^3f^3k^3 + 14a^2b^3c^3d^3l^3 - 9a^2c^6e^2f^2g^2 - 9a^2c^6d^2f^2h^2 - 5a^2b^3c^3e^3k^3 - 3a^3b^2c^3f^2j^4 - 3a^2b^2c^4f^4j^2 + a^2b^3c^3f^3j^3 - 18a^2b^2c^4d^3k^3 + 12a^3b^2c^3d^2k^4 + 4a^2b^2c^4e^3j^3 - 3a^2b^4c^2d^2k^4 - 3a^2b^2c^4e^2h^4 + 6a^7c^*k^*l^4m - 3a^7b^*k^*l^*m^4 - 6a^7c^*h^*k^*m^4 - 6a^7c^*g^*l^*m^4 + 3a^6b^*c^*h^*l^5 - 6a^*c^7d^4e^*j - 6a^*c^7d^4f^*h - 3b^*c^7d^4e^*f + 6a^*c^7d^4e^4f + 3a^*b^*c^6e^5h - a^5b^2c^*j^3l^3 - a^3b^4c^*g^3l^3 - a^*b^4c^3e^3j^3 - a^*b^2c^5e^3g^3 + 3a^7b^*j^*m^5 + 6a^7c^*f^*m^5 + 6a^*c^7d^5k + 3b^*c^7d^5g - 3a^6c^2j^4m^2 - 3a^6b^2j^2m^4 + 2a^6c^2j^3l^3 + a^5b^3j^3m^3 - 2a^6c^2h^3m^3 - 3a^6c^2h^2l^4 - 3a^5c^3h^4l^2 - a^*b^6c^*e^3l^3 + 20a^5c^3f^3m^3 - 15a^6c^2f^2m^4 - 15a^4c^4f^4m^2 + 2a^5c^3h^3k^3 - 2a^5c^3g^3l^3 + a^3b^5g^3m^3 - 3a^5c^3g^2k^4 - 3a^4c^4g^4k^2 - 3a^4b^4f^2m^4 + 20a^4c^4e^3l^3 - 15a^5c^3e^2l^4 - 15a^3c^5e^4l^2 + 2a^4c^4g^3j^3 - 2a^4c^4f^3k^3 - 2a^4c^4d^3m^3 - 3b^4c^4d^4k^2 - 3a^4c^4f^2j^4 - 3a^3c^5f^4j^2 + 20a^3c^5d^3k^3 - 15a^4c^4d^2k^4 - 15a^2c^6d^4k^2 - 2a^3c^5e^3j^3 + b^5c^3d^3j^3 + 2a^3c^5f^3h^3 - 3a^3c^5e^2h^4 - 3a^2c^6e^4h^2 - 3b^2c^6d^4g^2 + 2a^2c^6e^3g^3 - 2a^2c^6d^3h^3 + b^3c^5d^3g^3 - 3a^2c^6d^2g^4 - a^4b^2c^2h^3k^3 - a^3b^2c^3g^3j^3 - a^2b^4c^2f^3k^3 - a^2b^2c^4f^3h^3 + 2a^7c^*k^3m^3 + a^7b^*l^3m^3 - 3a^7c^*j^2m^4 + 6a^3c^5f^5m - 3a^6b^2f^*m^5 + 6a^6c^2e^*l^5 + 6a^2c^6e^5l + b^7c^*d^3l^3 + a^*b^7e^3m^3 - 3b^2c^6d^5k + 6a^5c^3d^*k^5 - 3a^*c^7d^4g^2 + 2a^*c^7d^3f^3 + b^*c^7d^3e^3 - a^6b^2k^3m^3 - a^4b^4h^3m^3 - a^2b^6f^3m^3 - b^6c^2d^3k^3 - b^4c^4d^3h^3 - b^2c^6d^3f^3 - b^8d^3m^3 - a^6c^2k^6 - a^5c^3j^6 - a^4c^4h^6 - a^3c^5g^6 - a^2c^6f^6 - a^7c^*l^6 - a^*c^7e^6 - a^8m^6 - c^8d^6, z, k1)*(root(34992a^4b^2c^8z^6 - 8748a^3b^4c^7z^6 + 729a^2b^6c^6z^6 - 46656a^5c^9z^6 + 34992a^4b^3c^6m*z^5 - 8748a^3b^5c^5m*z^5 + 729a^2b^7c^4m*z^5 - 34992a^4b^2c^7j*z^5 + 8748a^3b^4c^6j*z^5 - 729a^2b^6c^5j*z^5 - 46656a^5b^*c^7m*z^5 + 46656a^5c^8j*z^5 + 34992a^5b^*c^6j*m*z^4 - 11664a^5b^*c^6k^*l*z^4 + 3888a^4b^*c^7f*j*z^4 + 3888a^4b^*c^7e*k*z^4 + 3888a^4b^*c^7d^*l*z^4 + 3888a^4b^*c^7g*h*z^4 + 3888a^3b^*c^8d^*e*z^4 + 243a^*b^5c^6d^*e*z^4 - 25272a^4b^3c^5j*m*z^4 + 9720a^4b^3c^5k^*l*z^4 + 6075a^3b^5c^4j*m*z^4 - 2673a^3b^5c^4k^*l*z^4 - 486a^2b^7c^3j*m*z^4 + 243a^2b^7c^3k^*l*z^4 - 7776a^4b^2c^6h^*k*z^4 - 7776a^4b^2c^6g^*l*z^4 - 7776a^4b^2c^6f^*m*z^4 + 2430a^3b^4c^5h^*k*z^4 + 2430a^3b^4c^5g^*l*z^4 + 2430a^3b^4c^5f^*m*z^4 - 243a^2b^6c^4h^*k*z^4 - 243a^2b^6c^4g^*l*z^4 - 243a^2b^6c^4f^*m*z^4 - 1944a^3b^3c^6f^*j*z^4 - 1944
\end{aligned}$$

$$\begin{aligned}
& *a^3*b^3*c^6*e*k*z^4 - 1944*a^3*b^3*c^6*d*l*z^4 + 243*a^2*b^5*c^5*f*j*z^4 + \\
& 243*a^2*b^5*c^5*e*k*z^4 + 243*a^2*b^5*c^5*d*l*z^4 - 1944*a^3*b^3*c^6*g*h*z^4 + 243*a^2*b^5*c^5*g*h*z^4 + 3888*a^3*b^2*c^7*e*g*z^4 + 3888*a^3*b^2*c^7* \\
& d*h*z^4 - 486*a^2*b^4*c^6*e*g*z^4 - 486*a^2*b^4*c^6*d*h*z^4 - 1944*a^2*b^3*c^7*d*e*z^4 + 7776*a^5*c^7*h*k*z^4 + 7776*a^5*c^7*g*l*z^4 + 7776*a^5*c^7*f* \\
& m*z^4 - 7776*a^4*c^8*e*g*z^4 - 7776*a^4*c^8*d*h*z^4 - 13608*a^5*b^2*c^5*m^2 \\
& *z^4 + 11421*a^4*b^4*c^4*m^2*z^4 - 2916*a^3*b^6*c^3*m^2*z^4 + 243*a^2*b^8*c^2*m^2*z^4 + 13608*a^4*b^2*c^6*j^2*z^4 - 3159*a^3*b^4*c^5*j^2*z^4 + 243*a^2 \\
& *b^6*c^4*j^2*z^4 + 1944*a^3*b^2*c^7*f^2*z^4 - 243*a^2*b^4*c^6*f^2*z^4 - 388 \\
& 8*a^6*c^6*m^2*z^4 - 19440*a^5*c^7*j^2*z^4 - 3888*a^4*c^8*f^2*z^4 + 3078*a^4 \\
& *b^4*c^3*k*l*m*z^3 - 2592*a^5*b^2*c^4*k*l*m*z^3 - 891*a^3*b^6*c^2*k*l*m*z^3 \\
& - 4536*a^4*b^3*c^4*j*k*l*z^3 + 1053*a^3*b^5*c^3*j*k*l*z^3 - 81*a^2*b^7*c^2 \\
& *j*k*l*z^3 - 2592*a^4*b^3*c^4*h*k*m*z^3 - 2592*a^4*b^3*c^4*g*l*m*z^3 + 810* \\
& a^3*b^5*c^3*h*k*m*z^3 + 810*a^3*b^5*c^3*g*l*m*z^3 - 81*a^2*b^7*c^2*h*k*m*z^3 \\
& - 81*a^2*b^7*c^2*g*l*m*z^3 + 7776*a^4*b^2*c^5*f*j*m*z^3 + 3888*a^4*b^2*c^5 \\
& *h*j*k*z^3 + 3888*a^4*b^2*c^5*g*j*l*z^3 - 3888*a^4*b^2*c^5*f*k*l*z^3 - 291 \\
& 6*a^3*b^4*c^4*f*j*m*z^3 + 1458*a^3*b^4*c^4*f*k*l*z^3 - 972*a^3*b^4*c^4*h*j* \\
& k*z^3 - 972*a^3*b^4*c^4*g*j*l*z^3 - 486*a^3*b^4*c^4*e*k*m*z^3 - 486*a^3*b^4 \\
& *c^4*d*l*m*z^3 + 324*a^2*b^6*c^3*f*j*m*z^3 - 162*a^2*b^6*c^3*f*k*l*z^3 + 81 \\
& *a^2*b^6*c^3*h*j*k*z^3 + 81*a^2*b^6*c^3*g*j*l*z^3 + 81*a^2*b^6*c^3*e*k*m*z^3 \\
& + 81*a^2*b^6*c^3*d*l*m*z^3 - 486*a^3*b^4*c^4*g*h*m*z^3 + 81*a^2*b^6*c^3*g \\
& *h*m*z^3 + 648*a^3*b^3*c^5*e*j*k*z^3 + 648*a^3*b^3*c^5*d*j*l*z^3 - 81*a^2*b^5 \\
& *c^4*e*j*k*z^3 - 81*a^2*b^5*c^4*d*j*l*z^3 + 2592*a^3*b^3*c^5*e*g*m*z^3 + \\
& 2592*a^3*b^3*c^5*d*h*m*z^3 - 1296*a^3*b^3*c^5*f*h*k*z^3 - 1296*a^3*b^3*c^5* \\
& f*g*l*z^3 - 1296*a^3*b^3*c^5*e*h*l*z^3 + 648*a^3*b^3*c^5*g*h*j*z^3 - 324*a^2 \\
& *b^5*c^4*e*g*m*z^3 - 324*a^2*b^5*c^4*d*h*m*z^3 + 162*a^2*b^5*c^4*f*h*k*z^3 \\
& + 162*a^2*b^5*c^4*f*g*l*z^3 + 162*a^2*b^5*c^4*e*h*l*z^3 - 81*a^2*b^5*c^4*g \\
& *h*j*z^3 + 5184*a^3*b^2*c^6*d*e*m*z^3 - 2592*a^3*b^2*c^6*e*g*j*z^3 - 2592*a^3 \\
& *b^2*c^6*d*h*j*z^3 - 2106*a^2*b^4*c^5*d*e*m*z^3 + 1296*a^3*b^2*c^6*e*f*k* \\
& z^3 + 1296*a^3*b^2*c^6*d*g*k*z^3 + 1296*a^3*b^2*c^6*d*f*l*z^3 + 324*a^2*b^4 \\
& *c^5*e*g*j*z^3 + 324*a^2*b^4*c^5*d*h*j*z^3 - 162*a^2*b^4*c^5*e*f*k*z^3 - 16 \\
& 2*a^2*b^4*c^5*d*g*k*z^3 - 162*a^2*b^4*c^5*d*f*l*z^3 + 1296*a^3*b^2*c^6*f*g* \\
& h*z^3 - 162*a^2*b^4*c^5*f*g*h*z^3 + 1944*a^2*b^3*c^6*d*e*j*z^3 - 1296*a^2*b^2 \\
& *c^7*d*e*f*z^3 + 81*a^2*b^8*c*k*l*m*z^3 + 6480*a^5*b*c^5*j*k*l*z^3 + 2592 \\
& *a^5*b*c^5*h*k*m*z^3 + 2592*a^5*b*c^5*g*l*m*z^3 - 1296*a^4*b*c^6*e*j*k*z^3 \\
& - 1296*a^4*b*c^6*d*j*l*z^3 - 5184*a^4*b*c^6*e*g*m*z^3 - 5184*a^4*b*c^6*d*h* \\
& m*z^3 + 2592*a^4*b*c^6*f*h*k*z^3 + 2592*a^4*b*c^6*f*g*l*z^3 + 2592*a^4*b*c^6 \\
& *e*h*l*z^3 - 1296*a^4*b*c^6*g*h*j*z^3 + 243*a*b^6*c^4*d*e*m*z^3 - 3888*a^3 \\
& *b*c^7*d*e*j*z^3 - 243*a*b^5*c^5*d*e*j*z^3 + 162*a*b^4*c^6*d*e*f*z^3 - 2592 \\
& *a^6*c^5*k*l*m*z^3 - 5184*a^5*c^6*h*j*k*z^3 - 5184*a^5*c^6*g*j*l*z^3 - 5184 \\
& *a^5*c^6*f*j*m*z^3 + 2592*a^5*c^6*f*k*l*z^3 + 2592*a^5*c^6*e*k*m*z^3 + 2592 \\
& *a^5*c^6*d*l*m*z^3 + 2592*a^5*c^6*g*h*m*z^3 + 5184*a^4*c^7*e*g*j*z^3 + 5184 \\
& *a^4*c^7*d*h*j*z^3 - 2592*a^4*c^7*e*f*k*z^3 - 2592*a^4*c^7*d*g*k*z^3 - 2592 \\
& *a^4*c^7*d*f*l*z^3 - 2592*a^4*c^7*d*e*m*z^3 - 2592*a^4*c^7*f*g*h*z^3 + 2592 \\
& *a^3*c^8*d*e*f*z^3 + 6480*a^5*b^2*c^4*j*m^2*z^3 + 6480*a^4*b^3*c^4*j^2*m*z^
\end{aligned}$$

$$\begin{aligned}
& 3 - 5022a^4b^4c^3jm^2z^3 - 1296a^3b^5c^3j^2mz^3 + 1134a^3b^6c^2jm^2z^3 + 81a^2b^7c^2j^2mz^3 + 2592a^4b^3c^4h^1z^3 - 1944a^4b^2c^5h^2z^3 - 810a^3b^5c^3h^1z^3 + 729a^3b^4c^4h^2z^3 + 81a^2b^7c^2h^1z^3 - 81a^2b^6c^3h^2z^3 - 5184a^4b^3c^4fm^2z^3 + 1620a^3b^5c^3fm^2z^3 + 1296a^3b^3c^5f^2mz^3 - 162a^2b^7c^2fm^2z^3 - 162a^2b^5c^4f^2mz^3 - 1944a^4b^2c^5gk^2z^3 + 729a^3b^4c^4gk^2z^3 - 648a^3b^3c^5g^2kz^3 - 81a^2b^6c^3gk^2z^3 + 81a^2b^5c^4g^2kz^3 - 1944a^4b^2c^5e^1z^3 + 729a^3b^4c^4e^1z^3 + 648a^3b^2c^6e^2z^3 - 81a^2b^6c^3e^1z^3 - 81a^2b^4c^5e^2z^3 + 1296a^3b^3c^5fj^2z^3 - 1296a^3b^2c^6f^2jz^3 - 162a^2b^5c^4fj^2z^3 + 162a^2b^4c^5f^2jz^3 - 648a^3b^3c^5dk^2z^3 + 81a^2b^5c^4dk^2z^3 + 648a^3b^2c^6e^1h^2z^3 - 81a^2b^4c^5e^1h^2z^3 - 648a^2b^2c^7d^2gz^3 - 10368a^5b^3c^5j^2mz^3 - 81a^2b^8c^3jm^2z^3 - 2592a^5b^3c^5h^1z^3 + 5184a^5b^3c^5fm^2z^3 - 2592a^4b^3c^6f^2mz^3 + 1296a^4b^3c^6g^2kz^3 - 2592a^4b^3c^6fj^2z^3 + 1296a^4b^3c^6dk^2z^3 + 81a^4b^4c^6d^2gz^3 + 2592a^6c^5jm^2z^3 + 1296a^5c^6h^2z^3 + 1296a^5c^6gk^2z^3 + 1296a^5c^6e^1z^3 - 1296a^4c^7e^2z^3 + 2592a^4c^7f^2jz^3 - 2592a^6b^3c^4m^3z^3 - 324a^3b^7c^3m^3z^3 - 27a^2b^8c^1z^3 - 1296a^4c^7e^1h^2z^3 - 864a^5b^3c^5k^3z^3 + 1296a^3c^8d^2gz^3 + 432a^4b^3c^6h^3z^3 + 27a^4b^4c^6e^3z^3 - 432a^2b^3c^8d^3z^3 + 216a^4b^3c^7d^3z^3 + 1134a^4b^5c^2m^3z^3 - 432a^5b^3c^3m^3z^3 + 1512a^5b^2c^4l^3z^3 - 1107a^4b^4c^3l^3z^3 + 297a^3b^6c^2l^3z^3 + 864a^4b^3c^4k^3z^3 - 270a^3b^5c^3k^3z^3 + 27a^2b^7c^2k^3z^3 - 2592a^4b^2c^5j^3z^3 + 486a^3b^4c^4j^3z^3 - 27a^2b^6c^3j^3z^3 - 216a^3b^3c^5h^3z^3 + 27a^2b^5c^4h^3z^3 + 216a^3b^2c^6g^3z^3 - 27a^2b^4c^5g^3z^3 - 216a^2b^2c^7e^3z^3 - 432a^6c^5l^3z^3 + 27a^2b^9m^3z^3 + 4320a^5c^6j^3z^3 - 432a^4c^7g^3z^3 + 432a^3c^8e^3z^3 - 27b^5c^6d^3z^3 + 81a^3b^6c^3jk^1mz^2 - 1296a^5b^3c^4h^1jm^2z^2 - 1296a^5b^3c^4g^1jm^2z^2 + 1296a^5b^3c^4f^1jm^2z^2 - 81a^2b^7c^3fk^1mz^2 + 2592a^4b^3c^5eg^1jm^2z^2 + 2592a^4b^3c^5d^1hm^2z^2 - 1296a^4b^3c^5fh^1jm^2z^2 - 1296a^4b^3c^5fg^1jm^2z^2 - 1296a^4b^3c^5ef^1jm^2z^2 - 1296a^4b^3c^5d^1fm^2z^2 - 648a^4b^3c^5e^1hm^2z^2 - 648a^4b^3c^5d^1hk^1mz^2 - 648a^4b^3c^5d^1gk^1mz^2 - 1296a^4b^3c^5fg^1hm^2z^2 - 162a^4b^3c^3d^1em^2z^2 + 81a^4b^3c^3d^1ek^1mz^2 + 1296a^3b^3c^6d^1ef^1mz^2 - 648a^3b^3c^6d^1fg^1k^1mz^2 - 648a^3b^3c^6d^1e^1hk^1mz^2 - 648a^3b^3c^6d^1eg^1l^1mz^2 - 81a^4b^5c^4d^1e^1hk^1mz^2 - 81a^4b^5c^4d^1ef^1mz^2 - 81a^4b^4c^5d^1ef^1jz^2 + 81a^4b^4c^5d^1eg^1hz^2 + 648a^5b^2c^3jk^1mz^2 - 567a^4b^4c^2jk^1mz^2 - 1944a^4b^3c^3fk^1mz^2 + 729a^3b^5c^2fk^1mz^2 + 648a^4b^3c^3h^1jm^2z^2 + 648a^4b^3c^3g^1jm^2z^2 - 81a^3b^5c^2h^1jm^2z^2 - 81a^3b^5c^2g^1jm^2z^2 + 1944a^4b^2c^4f^1jm^2z^2 - 729a^3b^4c^3f^1jm^2z^2 + 648a^4b^2c^4e^1jm^2z^2 + 648a^4b^2c^4d^1jm^2z^2 - 81a^3b^4c^3e^1jm^2z^2 - 81a^3b^4c^3d^1jm^2z^2 + 81a^2b^6c^2f^1jm^2z^2 + 1296a^4b^2c^4fh^1k^1mz^2 + 1
\end{aligned}$$

$$\begin{aligned}
& 296a^4b^2c^4f*g*l*m*z^2 + 648a^4b^2c^4g*h*j*m*z^2 - 648a^3b^4c^3 \\
& *f*h*k*m*z^2 - 648a^3b^4c^3f*g*l*m*z^2 - 324a^4b^2c^4g*h*k*l*z^2 - \\
& 324a^4b^2c^4e*h*l*m*z^2 + 81a^3b^4c^3g*h*k*l*z^2 - 81a^3b^4c^3g \\
& *h*j*m*z^2 + 81a^2b^6c^2f*h*k*m*z^2 + 81a^2b^6c^2f*g*l*m*z^2 - 1296 \\
& *a^3b^3c^4e*g*j*m*z^2 - 1296a^3b^3c^4d*h*j*m*z^2 + 648a^3b^3c^4f \\
& *h*j*k*z^2 + 648a^3b^3c^4f*g*j*l*z^2 + 648a^3b^3c^4e*f*k*m*z^2 + 64 \\
& 8a^3b^3c^4d*f*l*m*z^2 + 486a^3b^3c^4e*g*k*l*z^2 + 486a^3b^3c^4d \\
& *h*k*l*z^2 + 162a^3b^3c^4e*h*j*l*z^2 + 162a^3b^3c^4d*g*k*m*z^2 + 16 \\
& 2a^2b^5c^3e*g*j*m*z^2 + 162a^2b^5c^3d*h*j*m*z^2 - 81a^2b^5c^3f* \\
& h*j*k*z^2 - 81a^2b^5c^3f*g*j*l*z^2 - 81a^2b^5c^3e*g*k*l*z^2 - 81a^ \\
& 2b^5c^3e*f*k*m*z^2 - 81a^2b^5c^3d*h*k*l*z^2 - 81a^2b^5c^3d*f*l*m \\
& *z^2 + 648a^3b^3c^4f*g*h*m*z^2 - 81a^2b^5c^3f*g*h*m*z^2 - 3240a^3b \\
& b^2c^5d*e*j*m*z^2 + 1620a^3b^2c^5d*e*k*l*z^2 + 1377a^2b^4c^4d*e*j \\
& *m*z^2 - 648a^3b^2c^5e*f*j*k*z^2 - 648a^3b^2c^5d*f*j*l*z^2 - 648a^ \\
& 2b^4c^4d*e*k*l*z^2 - 324a^3b^2c^5d*g*j*k*z^2 + 81a^2b^4c^4e*f*j* \\
& k*z^2 + 81a^2b^4c^4d*f*j*l*z^2 + 972a^3b^2c^5e*f*h*l*z^2 - 648a^3b \\
& b^2c^5f*g*h*j*z^2 - 324a^3b^2c^5e*g*h*k*z^2 - 324a^3b^2c^5d*g*h*l \\
& *z^2 - 162a^2b^4c^4e*f*h*l*z^2 + 81a^2b^4c^4f*g*h*j*z^2 + 81a^2b^ \\
& 4c^4e*g*h*k*z^2 + 81a^2b^4c^4d*g*h*l*z^2 - 648a^2b^3c^5d*e*f*m*z^ \\
& 2 + 486a^2b^3c^5d*e*h*k*z^2 + 486a^2b^3c^5d*e*g*l*z^2 + 162a^2b^3 \\
& c^5d*f*g*k*z^2 + 648a^2b^2c^6d*e*f*j*z^2 - 324a^2b^2c^6d*e*g*h*z^ \\
& 2 - 1296a^6b*c^3k*l*m^2*z^2 - 81a^4b^5c*k*l*m^2*z^2 - 1296a^5b*c^4j \\
& j^2k*l*z^2 - 324a^5b*c^4h^2*l*m*z^2 + 324a^5b*c^4h*k^2*l*z^2 - 324a \\
& ^5b*c^4g*k^2*m*z^2 + 972a^5b*c^4h*j*l^2*z^2 + 324a^5b*c^4g*k*l^2*z^ \\
& 2 - 324a^5b*c^4e*l^2*m*z^2 - 324a^4b*c^5e^2*l*m*z^2 - 1944a^5b*c^4f \\
& f*j*m^2*z^2 + 1296a^5b*c^4e*k*m^2*z^2 + 1296a^5b*c^4d*l*m^2*z^2 + 648 \\
& *a^4b*c^5f^2*j*m*z^2 + 81a^2b^7c*f*j*m^2*z^2 + 1296a^5b*c^4g*h*m^2* \\
& z^2 - 324a^4b*c^5g^2*j*k*z^2 + 324a^4b*c^5g^2*h*l*z^2 + 972a^4b*c^5 \\
& *f*h^2*l*z^2 + 324a^4b*c^5g*h^2*k*z^2 - 324a^4b*c^5e*h^2*m*z^2 - 324* \\
& a^4b*c^5d*j*k^2*z^2 - 324a^3b*c^6d^2*j*k*z^2 + 972a^4b*c^5f*g*k^2*z \\
& ^2 + 972a^3b*c^6d^2*g*m*z^2 + 324a^4b*c^5e*h*k^2*z^2 + 324a^3b*c^6* \\
& d^2*h*l*z^2 + 81a*b^5c^4d^2*g*m*z^2 + 972a^4b*c^5e*f*l^2*z^2 + 324a^ \\
& 4b*c^5d*g*l^2*z^2 - 324a^3b*c^6e^2*h*j*z^2 + 324a^3b*c^6e^2*g*k*z^2 \\
& - 324a^3b*c^6e^2*f*l*z^2 - 1296a^4b*c^5d*e*m^2*z^2 + 81a*b^7c^2d* \\
& e*m^2*z^2 - 324a^3b*c^6d*g^2*j*z^2 - 81a*b^4c^5d^2*g*j*z^2 + 81a*b^4 \\
& c^5d^2*e*l*z^2 + 324a^3b*c^6e*g^2*h*z^2 + 81a*b^4c^5d*e^2*k*z^2 + 1 \\
& 296a^3b*c^6d*e*j^2*z^2 - 324a^3b*c^6e*f*h^2*z^2 + 324a^3b*c^6d*g*h \\
& ^2*z^2 + 81a*b^5c^4d*e*j^2*z^2 - 324a^2b*c^7d^2*f*g*z^2 + 324a^2b*c \\
& ^7d^2*e*h*z^2 + 81a*b^3c^6d^2*f*g*z^2 - 81a*b^3c^6d^2*e*h*z^2 + 324* \\
& a^2b*c^7d*e^2*g*z^2 - 81a*b^3c^6d*e^2*g*z^2 + 1296a^6c^4j*k*l*m*z^2 \\
& - 1296a^5c^5f*j*k*l*z^2 - 1296a^5c^5e*j*k*m*z^2 - 1296a^5c^5d*j*l \\
& *m*z^2 - 1296a^5c^5g*h*j*m*z^2 + 1296a^5c^5e*h*l*m*z^2 + 1296a^4c^6 \\
& *e*f*j*k*z^2 + 1296a^4c^6d*g*j*k*z^2 + 1296a^4c^6d*f*j*l*z^2 - 1296a \\
& ^4c^6d*e*k*l*z^2 + 1296a^4c^6d*e*j*m*z^2 + 1296a^4c^6f*g*h*j*z^2 - \\
& 1296a^4c^6e*f*h*l*z^2 - 1296a^3c^7d*e*f*j*z^2 + 648a^5b^3c^2k*l*m
\end{aligned}$$

$$\begin{aligned}
&^2z^2 + 648a^4b^3c^3j^2k^1z^2 + 486a^5b^2c^3h^1l^2m^2z^2 - 81a^4 \\
&b^4c^2h^1l^2m^2z^2 + 81a^4b^3c^3h^2l^1m^2z^2 - 81a^3b^5c^2j^2k^1 \\
&z^2 - 162a^4b^2c^4g^2k^1m^2z^2 - 81a^4b^3c^3h^2k^1l^2z^2 + 81a^4b^3 \\
&c^3g^2k^1m^2z^2 - 567a^4b^3c^3h^2j^1l^2z^2 + 486a^4b^2c^4h^2j^1l^2z^2 \\
&- 81a^4b^3c^3g^2k^1l^2z^2 + 81a^4b^3c^3e^1l^2m^2z^2 + 81a^3b^5c^2 \\
&h^2j^1l^2z^2 - 81a^3b^4c^3h^2j^1l^2z^2 + 81a^3b^3c^4e^2l^1m^2z^2 + 2 \\
&430a^4b^3c^3f^2j^1m^2z^2 - 2268a^4b^2c^4f^2j^2m^2z^2 - 810a^3b^5c^2 \\
&f^2j^1m^2z^2 + 810a^3b^4c^3f^2j^2m^2z^2 - 648a^4b^3c^3e^2k^1m^2z^2 - \\
&648a^4b^3c^3d^1m^2z^2 - 648a^4b^2c^4h^2j^2k^1z^2 - 648a^4b^2c^4 \\
&g^2j^2l^1z^2 - 162a^3b^3c^4f^2j^1m^2z^2 + 81a^3b^5c^2e^2k^1m^2z^2 + \\
&81a^3b^5c^2d^1m^2z^2 + 81a^3b^4c^3h^2j^2k^1z^2 + 81a^3b^4c^3g^2 \\
&j^2l^1z^2 - 81a^2b^6c^2f^2j^2m^2z^2 - 648a^4b^3c^3g^2h^1m^2z^2 + 486a^4 \\
&b^2c^4g^2j^2k^1z^2 - 486a^4b^2c^4e^2k^1l^2z^2 + 486a^3b^2c^5d^2 \\
&k^1m^2z^2 - 162a^4b^2c^4d^2k^1m^2z^2 + 81a^3b^5c^2g^2h^1m^2z^2 - 81a^3 \\
&b^4c^3g^2j^2k^1z^2 + 81a^3b^4c^3e^2k^1l^2z^2 + 81a^3b^3c^4g^2j^2k^1 \\
&z^2 - 81a^2b^4c^4d^2k^1m^2z^2 + 486a^4b^2c^4e^2j^1l^2z^2 - 486a^4b \\
&^2c^4d^2k^1l^2z^2 - 162a^3b^2c^5e^2j^1l^2z^2 - 81a^3b^4c^3e^2j^1l^2z \\
&^2 + 81a^3b^4c^3d^2k^1l^2z^2 - 81a^3b^3c^4g^2h^1l^2z^2 - 1458a^4b^2 \\
&c^4f^2h^1l^2z^2 + 648a^3b^4c^3f^2h^1l^2z^2 - 567a^3b^3c^4f^2h^2l^1z^2 \\
&+ 486a^3b^2c^5e^2h^1m^2z^2 - 81a^3b^3c^4g^2h^2k^1z^2 + 81a^3b^3c^4 \\
&e^2h^2m^2z^2 - 81a^2b^6c^2f^2h^1l^2z^2 + 81a^2b^5c^3f^2h^2l^1z^2 - \\
&81a^2b^4c^4e^2h^1m^2z^2 - 1296a^4b^2c^4e^2g^1m^2z^2 - 1296a^4b^2c^4 \\
&d^2h^1m^2z^2 + 648a^3b^4c^3e^2g^1m^2z^2 + 648a^3b^4c^3d^2h^1m^2z^2 + \\
&81a^3b^3c^4d^2j^2k^1z^2 - 81a^2b^6c^2e^2g^1m^2z^2 - 81a^2b^6c^2d^2 \\
&h^1m^2z^2 + 81a^2b^3c^5d^2j^2k^1z^2 - 567a^3b^3c^4f^2g^2k^1z^2 - 567 \\
&a^2b^3c^5d^2g^1m^2z^2 + 486a^3b^2c^5f^2g^2k^1z^2 - 486a^3b^2c^5e^2 \\
&g^2l^1z^2 + 486a^3b^2c^5d^2g^2m^2z^2 - 81a^3b^3c^4e^2h^2k^1z^2 + 81a^ \\
&^2b^5c^3f^2g^2k^1z^2 - 81a^2b^4c^4f^2g^2k^1z^2 + 81a^2b^4c^4e^2g^2 \\
&l^1z^2 - 81a^2b^4c^4d^2g^2m^2z^2 - 81a^2b^3c^5d^2h^1l^2z^2 - 567a^3b \\
&^3c^4e^2f^1l^2z^2 - 486a^3b^2c^5d^2h^2k^1z^2 - 162a^3b^2c^5e^2h^2j^2 \\
&z^2 - 81a^3b^3c^4d^2g^1l^2z^2 + 81a^2b^5c^3e^2f^1l^2z^2 + 81a^2b^4c^4 \\
&d^2h^2k^1z^2 + 81a^2b^3c^5e^2h^2j^2z^2 - 81a^2b^3c^5e^2g^2k^1z^2 + \\
&81a^2b^3c^5e^2f^1l^2z^2 + 1944a^3b^3c^4d^2e^1m^2z^2 - 729a^2b^5c^3 \\
&d^2e^1m^2z^2 + 648a^3b^2c^5e^2g^2j^2z^2 + 648a^3b^2c^5d^2h^2j^2z^2 - \\
&81a^2b^4c^4e^2g^2j^2z^2 - 81a^2b^4c^4d^2h^2j^2z^2 + 486a^3b^2c^5 \\
&d^2f^2k^1z^2 + 486a^2b^2c^6d^2g^2j^2z^2 - 486a^2b^2c^6d^2e^1l^2z^2 - 1 \\
&62a^2b^2c^6d^2f^2k^1z^2 - 81a^2b^4c^4d^2f^2k^1z^2 + 81a^2b^3c^5d^2 \\
&g^2j^2z^2 - 486a^2b^2c^6d^2e^2k^1z^2 - 81a^2b^3c^5e^2g^2h^2z^2 - 648 \\
&a^2b^3c^5d^2e^2j^2z^2 - 162a^2b^2c^6e^2f^2h^2z^2 + 81a^2b^3c^5e^2f^2 \\
&h^2z^2 - 81a^2b^3c^5d^2g^2h^2z^2 - 162a^2b^2c^6d^2f^2g^2z^2 - 189a^ \\
&^5b^3c^2l^3m^2z^2 + 162a^5b^2c^3k^3m^2z^2 - 27a^4b^4c^2k^3m^2z^2 \\
&- 702a^4b^3c^3j^3m^2z^2 - 81a^3b^6c^2j^2m^2z^2 + 81a^3b^5c^2j^3 \\
&m^2z^2 - 54a^5b^3c^2j^2m^3z^2 - 486a^5b^2c^3j^2l^3z^2 + 216a^4b^4 \\
&c^2j^2l^3z^2 - 189a^4b^3c^3j^2k^3z^2 - 54a^4b^2c^4h^3m^2z^2 + 27a^ \\
&^3b^5c^2j^2k^3z^2 + 27a^3b^3c^4g^3m^2z^2 - 810a^4b^4c^2f^2m^3z^2
\end{aligned}$$

$$\begin{aligned}
& 2 + 540a^5b^2c^3f^3m^3z^2 - 324a^3b^2c^5f^3m^3z^2 + 54a^2b^4c^4f^3m^3z^2 + 675a^4b^3c^3f^3l^3z^2 - 243a^3b^5c^2f^3l^3z^2 - 189a^2b^3c^5e^3m^3z^2 + 27a^3b^3c^4h^3j^3z^2 - 486a^4b^2c^4f^3k^3z^2 - \\
& 486a^2b^2c^6d^3m^3z^2 + 216a^3b^4c^3f^3k^3z^2 - 54a^3b^2c^5g^3j^3z^2 - 27a^2b^6c^2f^3k^3z^2 - 270a^3b^3c^4f^3j^3z^2 - 54a^2b^3c^5f^3j^3z^2 + 27a^2b^5c^3f^3j^3z^2 + 162a^2b^2c^6e^3j^3z^2 + 162a^3b^2c^5f^3h^3z^2 - 27a^2b^4c^4f^3h^3z^2 + 27a^2b^3c^5f^3g^3z^2 \\
& + 81a^2b^2c^7d^2e^2z^2 - 648a^6c^4h^3l^2m^3z^2 + 648a^5c^5g^2k^3m^3z^2 - 648a^5c^5h^2j^3l^2z^2 + 1296a^5c^5h^2j^2k^3z^2 + 1296a^5c^5g^2j^2l^2z^2 + 1296a^5c^5f^3j^2m^3z^2 - 648a^5c^5g^2j^2k^2z^2 + 648a^5c^5e^2k^2l^2z^2 + 648a^5c^5d^2k^2m^3z^2 - 648a^4c^6d^2k^3m^3z^2 - 648a^5c^5e^2j^2l^2z^2 + 648a^5c^5d^2k^2l^2z^2 + 648a^4c^6e^2j^3l^2z^2 + 324a^6b^3c^3l^3m^3z^2 + 27a^4b^5c^3l^3m^3z^2 + 648a^5c^5f^3h^3l^2z^2 - 648a^4c^6e^2h^3m^3z^2 + 1512a^5b^3c^4j^3m^3z^2 + 1080a^6b^3c^3j^3m^3z^2 - 162a^4b^5c^3j^3m^3z^2 - 648a^4c^6f^3g^2k^3z^2 + 648a^4c^6e^2g^2l^2z^2 - 648a^4c^6d^2g^2m^3z^2 - 27a^3b^6c^3j^3l^3z^2 + 648a^4c^6e^2h^2j^3z^2 + 648a^4c^6d^2h^2k^3z^2 + 324a^5b^3c^4j^3k^3z^2 - 1296a^4c^6e^2g^2j^2z^2 - 1296a^4c^6d^2h^2j^2z^2 - 108a^4b^3c^5g^3m^3z^2 - 648a^4c^6d^2f^3k^2z^2 - 648a^3c^7d^2g^2j^3z^2 + 648a^3c^7d^2f^3k^3z^2 + 648a^3c^7d^2e^2l^2z^2 + 270a^3b^6c^3f^3m^3z^2 + 648a^3c^7d^2e^2k^3z^2 - 540a^5b^3c^4f^3l^3z^2 + 324a^3b^3c^6e^3m^3z^2 - 108a^4b^3c^5h^3j^3z^2 + 27a^2b^7c^3f^3l^3z^2 + 27a^2b^5c^4e^3m^3z^2 + 648a^3c^7e^2f^3h^3z^2 + 216a^2b^4c^5d^3m^3z^2 + 648a^4b^3c^5f^3j^3z^2 + 216a^3b^3c^6f^3j^3z^2 + 648a^3c^7d^2f^3g^2z^2 - 27a^2b^4c^5e^3j^3z^2 + 324a^2b^3c^7d^3j^3z^2 - 189a^2b^3c^6d^3j^3z^2 - 108a^3b^3c^6f^3g^3z^2 - 108a^2b^3c^7e^3f^3z^2 + 27a^2b^3c^6e^3f^3z^2 + 162a^2b^2c^7d^3f^3z^2 - 1134a^5b^2c^3j^2m^2z^2 + 648a^4b^4c^2j^2m^2z^2 + 81a^5b^2c^3k^2l^2z^2 + 162a^4b^2c^4f^2m^2z^2 + 81a^4b^2c^4h^2k^2z^2 + 81a^4b^2c^4g^2l^2z^2 + 162a^3b^2c^5f^2j^2z^2 + 81a^3b^2c^5e^2k^2z^2 + 81a^3b^2c^5d^2l^2z^2 + 81a^3b^2c^5g^2h^2z^2 + 81a^2b^2c^6e^2g^2z^2 + 81a^2b^2c^6d^2h^2z^2 - 216a^6c^4k^3m^3z^2 + 216a^6c^4j^3l^3z^2 + 27a^3b^7j^3m^3z^2 + 216a^5c^5h^3m^3z^2 + 432a^6c^4f^3m^3z^2 + 432a^4c^6f^3m^3z^2 - 27b^6c^4d^3m^3z^2 - 27a^2b^8f^3m^3z^2 + 216a^5c^5f^3k^3z^2 + 216a^4c^6g^3j^3z^2 + 216a^3c^7d^3m^3z^2 + 216a^5b^4c^3m^4z^2 - 216a^3c^7e^3j^3z^2 + 27b^5c^5d^3j^3z^2 - 216a^4c^6f^3h^3z^2 - 27b^4c^6d^3f^3z^2 - 216a^2c^8d^3f^3z^2 - 648a^6c^4j^2m^2z^2 - 324a^6c^4k^2l^2z^2 - 648a^5c^5f^2m^2z^2 - 324a^5c^5h^2k^2z^2 - 324a^4c^6d^2l^2z^2 - 405a^6b^2c^2m^4z^2 - 324a^4c^6g^2h^2z^2 - 324a^3c^7e^2g^2z^2 - 324a^3c^7d^2h^2z^2 + 243a^4b^2c^4j^4z^2 - 27a^3b^4c^3j^4z^2 - 324a^2c^8d^2e^2z^2 + 27a^2b^2c^6f^4z^2 - 108a^7c^3m^4z^2 - 27a^4b^6m^4z^2 - 540a^5c^5j^4z^2 - 108a^3c^7f^4z^2 - 216a^5b^3c^3f^3j^3k^3l^3m^3z - 54a^3b^5c^3f^3j^3k^3l^3m^3z + 27a^3b^5c^3g^3h^3k^3l^3m^3z - 27a^2b^6c^3e^3g^3k^3l^3m^3z - 27a^2b^6c^3d^3h^3k^3l^3m^3z + 432a^4b^3c^4d^3g^3j^3k^3m^3z - 432a^4b^3c^4d^3e^3k^3
\end{aligned}$$

$$\begin{aligned}
& l*m*z + 216*a^4*b*c^4*e*g*j*k*l*z + 216*a^4*b*c^4*e*f*j*k*m*z + 216*a^4*b*c^4*d*h*j*k*l*z + 216*a^4*b*c^4*d*f*j*k*l*m*z + 216*a^4*b*c^4*f*g*h*j*m*z - 27 \\
& *a*b^6*c^2*d*e*j*k*l*z - 27*a*b^6*c^2*d*e*h*k*m*z - 27*a*b^6*c^2*d*e*g*l*m* \\
& z + 216*a^3*b*c^5*d*e*h*j*k*z + 216*a^3*b*c^5*d*e*g*j*l*z - 216*a^3*b*c^5*d \\
& *e*f*j*m*z + 27*a*b^5*c^3*d*e*h*j*k*z + 27*a*b^5*c^3*d*e*g*j*l*z + 27*a*b^5 \\
& *c^3*d*e*g*h*m*z - 27*a*b^4*c^4*d*e*g*h*j*z + 27*a*b^7*c*d*e*k*l*m*z + 270* \\
& a^4*b^3*c^2*f*j*k*l*m*z - 108*a^4*b^3*c^2*g*h*k*l*m*z - 216*a^4*b^2*c^3*f*h \\
& *j*k*m*z - 216*a^4*b^2*c^3*f*g*j*l*m*z - 216*a^4*b^2*c^3*e*g*k*l*m*z - 216* \\
& a^4*b^2*c^3*d*h*k*l*m*z + 162*a^3*b^4*c^2*e*g*k*l*m*z + 162*a^3*b^4*c^2*d*h \\
& *k*l*m*z + 108*a^4*b^2*c^3*g*h*j*k*l*z + 108*a^4*b^2*c^3*e*h*j*l*m*z + 54*a \\
& ^3*b^4*c^2*f*h*j*k*m*z + 54*a^3*b^4*c^2*f*g*j*l*m*z - 27*a^3*b^4*c^2*g*h*j* \\
& k*l*z + 540*a^3*b^3*c^3*d*e*k*l*m*z - 216*a^2*b^5*c^2*d*e*k*l*m*z - 162*a^3 \\
& *b^3*c^3*e*g*j*k*l*z - 162*a^3*b^3*c^3*d*h*j*k*l*z - 108*a^3*b^3*c^3*d*g*j* \\
& k*m*z - 54*a^3*b^3*c^3*e*f*j*k*m*z - 54*a^3*b^3*c^3*d*f*j*l*m*z + 27*a^2*b^ \\
& 5*c^2*e*g*j*k*l*z + 27*a^2*b^5*c^2*d*h*j*k*l*z - 108*a^3*b^3*c^3*e*g*h*k*m* \\
& z - 108*a^3*b^3*c^3*d*g*h*l*m*z - 54*a^3*b^3*c^3*f*g*h*j*m*z + 27*a^2*b^5*c \\
& ^2*e*g*h*k*m*z + 27*a^2*b^5*c^2*d*g*h*l*m*z - 540*a^3*b^2*c^4*d*e*j*k*l*z + \\
& 216*a^2*b^4*c^3*d*e*j*k*l*z - 216*a^3*b^2*c^4*d*e*h*k*m*z - 216*a^3*b^2*c^ \\
& 4*d*e*g*l*m*z + 162*a^2*b^4*c^3*d*e*h*k*m*z + 162*a^2*b^4*c^3*d*e*g*l*m*z + \\
& 108*a^3*b^2*c^4*e*g*h*j*k*z - 108*a^3*b^2*c^4*e*f*h*j*l*z + 108*a^3*b^2*c^ \\
& 4*d*g*h*j*l*z + 108*a^3*b^2*c^4*d*f*g*k*m*z - 27*a^2*b^4*c^3*e*g*h*j*k*z - \\
& 27*a^2*b^4*c^3*d*g*h*j*l*z - 162*a^2*b^3*c^4*d*e*h*j*k*z - 162*a^2*b^3*c^4 \\
& d*e*g*j*l*z + 54*a^2*b^3*c^4*d*e*f*j*m*z - 108*a^2*b^3*c^4*d*e*g*h*m*z + 10 \\
& 8*a^2*b^2*c^5*d*e*g*h*j*z + 324*a^6*b*c^2*j*k*l*m^2*z - 81*a^5*b^3*c*j*k*l* \\
& m^2*z + 27*a^4*b^4*c*j^2*k*l*m*z - 27*a^4*b^4*c*h*k^2*l*m*z - 27*a^4*b^4*c* \\
& g*k*l^2*m*z + 216*a^5*b*c^3*h*j^2*k*m*z + 216*a^5*b*c^3*g*j^2*l*m*z + 54*a^ \\
& 4*b^4*c*f*k*l*m^2*z + 27*a^4*b^4*c*h*j*k*m^2*z + 27*a^4*b^4*c*g*j*l*m^2*z + \\
& 27*a^2*b^6*c*f^2*k*l*m*z + 216*a^5*b*c^3*e*k^2*l*m*z - 108*a^5*b*c^3*h*j*k \\
& ^2*l*z + 27*a^3*b^5*c*e*k^2*l*m*z + 216*a^5*b*c^3*d*k*l^2*m*z + 216*a^4*b*c \\
& ^4*e^2*j*l*m*z - 108*a^5*b*c^3*g*j*k*l^2*z + 27*a^3*b^5*c*d*k*l^2*m*z - 324 \\
& *a^5*b*c^3*e*j*k*m^2*z - 324*a^5*b*c^3*d*j*l*m^2*z - 216*a^5*b*c^3*f*h*l^2* \\
& m*z - 108*a^4*b*c^4*f^2*j*k*l*z - 27*a^3*b^5*c*e*j*k*m^2*z - 27*a^3*b^5*c*d \\
& *j*l*m^2*z - 324*a^5*b*c^3*g*h*j*m^2*z + 216*a^5*b*c^3*f*h*k*m^2*z + 216*a^ \\
& 5*b*c^3*f*g*l*m^2*z + 216*a^5*b*c^3*e*h*l*m^2*z - 216*a^4*b*c^4*f^2*h*k*m*z \\
& - 216*a^4*b*c^4*f^2*g*l*m*z - 27*a^3*b^5*c*g*h*j*m^2*z + 216*a^4*b*c^4*e*g \\
& ^2*l*m*z - 108*a^4*b*c^4*g^2*h*j*l*z - 216*a^4*b*c^4*f*h^2*j*l*z + 216*a^4* \\
& b*c^4*e*h^2*j*m*z + 216*a^4*b*c^4*d*h^2*k*m*z - 108*a^4*b*c^4*g*h^2*j*k*z - \\
& 432*a^4*b*c^4*e*g*j^2*m*z - 432*a^4*b*c^4*d*h*j^2*m*z + 216*a^4*b*c^4*f*h* \\
& j^2*k*z + 216*a^4*b*c^4*f*g*j^2*l*z + 27*a^2*b^6*c*e*g*j*m^2*z + 27*a^2*b^6 \\
& *c*d*h*j*m^2*z - 432*a^3*b*c^5*d^2*g*j*m*z - 216*a^4*b*c^4*f*g*j*k^2*z + 21 \\
& 6*a^3*b*c^5*d^2*f*k*m*z + 216*a^3*b*c^5*d^2*e*l*m*z - 108*a^4*b*c^4*e*h*j*k \\
& ^2*z - 108*a^4*b*c^4*d*g*k^2*l*z - 108*a^3*b*c^5*d^2*h*j*l*z + 108*a^3*b*c^ \\
& 5*d^2*g*k*l*z - 54*a*b^5*c^3*d^2*g*j*m*z + 27*a*b^5*c^3*d^2*g*k*l*z + 27*a* \\
& b^5*c^3*d^2*e*l*m*z - 216*a^4*b*c^4*e*f*j*l^2*z + 216*a^3*b*c^5*d*e^2*k*m*z \\
& - 108*a^4*b*c^4*d*g*j*l^2*z - 108*a^3*b*c^5*e^2*g*j*k*z + 27*a*b^5*c^3*d*e
\end{aligned}$$

$$\begin{aligned}
& ^2*k*m*z + 324*a^4*b*c^4*d*e*j*m^2*z + 216*a^3*b*c^5*e^2*f*h*m*z - 108*a^4* \\
& b*c^4*e*g*h^1^2*z + 108*a^3*b*c^5*e^2*g*h^1*z + 108*a^3*b*c^5*e*f^2*j*k*z + \\
& 108*a^3*b*c^5*d*f^2*j^1*z + 27*a*b^6*c^2*d*e*j^2*m*z - 216*a^3*b*c^5*e*f^2 \\
& *h^1*z + 108*a^3*b*c^5*f^2*g*h*j*z - 27*a*b^4*c^4*d^2*e*j^1*z + 216*a^3*b*c \\
& ^5*d*f*g^2*m*z - 108*a^3*b*c^5*e*g^2*h*j*z + 54*a*b^4*c^4*d^2*f*g*m*z - 27* \\
& a*b^4*c^4*d^2*g*h*k*z - 27*a*b^4*c^4*d^2*e*h*m*z - 27*a*b^4*c^4*d*e^2*j*k*z \\
& - 108*a^3*b*c^5*d*g*h^2*j*z + 54*a*b^4*c^4*d*e^2*h^1*z + 27*a*b^6*c^2*d*e* \\
& h^1^2*z - 27*a*b^5*c^3*d*e*h^2^1*z - 27*a*b^4*c^4*d*e^2*g*m*z - 27*a*b^4*c^ \\
& 4*d*e*f^2*m*z + 216*a^2*b*c^6*d^2*f*g*j*z - 108*a^3*b*c^5*d*e*g*k^2*z - 108 \\
& *a^2*b*c^6*d^2*e*h*j*z + 108*a^2*b*c^6*d^2*e*g*k*z - 54*a*b^3*c^5*d^2*f*g*j \\
& *z - 27*a*b^5*c^3*d*e*g*k^2*z + 27*a*b^4*c^4*d*e*g^2*k*z + 27*a*b^3*c^5*d^2 \\
& *e*h*j*z - 27*a*b^3*c^5*d^2*e*g*k*z - 108*a^2*b*c^6*d*e^2*g*j*z + 27*a*b^3*c \\
& ^5*d*e^2*g*j*z - 108*a^2*b*c^6*d*e*f^2*j*z + 27*a*b^3*c^5*d*e*f^2*j*z - 43 \\
& 2*a^5*c^4*e*h*j^1*m*z + 432*a^4*c^5*d*e*j*k^1*z + 432*a^4*c^5*e*f*h*j^1*z - \\
& 432*a^4*c^5*d*f*g*k*m*z - 27*a*b^7*c*d*e*j*m^2*z - 54*a^5*b^2*c^2*j^2*k^1* \\
& m*z + 108*a^5*b^2*c^2*h*k^2^1*m*z + 108*a^5*b^2*c^2*g*k^1^2*m*z - 54*a^5*b^ \\
& 2*c^2*h*j^1^2*m*z + 378*a^4*b^2*c^3*f^2*k^1*m*z - 270*a^5*b^2*c^2*f*k^1*m^2 \\
& *z - 189*a^3*b^4*c^2*f^2*k^1*m*z - 108*a^5*b^2*c^2*h*j*k^1*m^2*z - 108*a^5*b^ \\
& 2*c^2*g*j^1*m^2*z - 54*a^4*b^3*c^2*h*j^2*k^1*m*z - 54*a^4*b^3*c^2*g*j^2^1*m*z \\
& - 162*a^4*b^3*c^2*e*k^2^1*m*z + 54*a^4*b^2*c^3*g^2*j*k^1*m*z + 27*a^4*b^3*c^ \\
& 2*h*j*k^2^1*z - 162*a^4*b^3*c^2*d*k^1^2*m*z + 108*a^4*b^2*c^3*g^2*h^1*m*z - \\
& 54*a^3*b^3*c^3*e^2*j^1*m*z + 27*a^4*b^3*c^2*g*j*k^1^2*z - 27*a^3*b^4*c^2*g \\
& ^2*h^1*m*z - 270*a^4*b^2*c^3*f*j^2*k^1*z + 189*a^4*b^3*c^2*e*j*k^1*m^2*z + 18 \\
& 9*a^4*b^3*c^2*d*j^1*m^2*z - 162*a^4*b^2*c^3*e*j^2*k^1*m*z - 162*a^4*b^2*c^3*d \\
& *j^2^1*m*z + 135*a^3*b^3*c^3*f^2*j*k^1*z + 108*a^4*b^2*c^3*g*h^2*k^1*m*z + 54 \\
& *a^4*b^3*c^2*f*h^1^2*m*z - 54*a^4*b^2*c^3*f*h^2^1*m*z + 54*a^3*b^4*c^2*f*j^ \\
& 2*k^1*z - 27*a^3*b^4*c^2*g*h^2*k^1*m*z + 27*a^3*b^4*c^2*e*j^2*k^1*m*z + 27*a^3* \\
& b^4*c^2*d*j^2^1*m*z - 27*a^2*b^5*c^2*f^2*j*k^1*z - 270*a^3*b^2*c^4*d^2*j*k^ \\
& m*z + 189*a^4*b^3*c^2*g*h*j^1*m^2*z - 162*a^4*b^2*c^3*g*h*j^2^1*m*z + 162*a^4*b \\
& ^2*c^3*e*j*k^2^1*z + 162*a^3*b^3*c^3*f^2*h*k^1*m*z + 162*a^3*b^3*c^3*f^2*g^1* \\
& m*z - 54*a^4*b^3*c^2*f*h*k^1*m^2*z - 54*a^4*b^3*c^2*f*g^1*m^2*z - 54*a^4*b^3* \\
& c^2*e*h^1*m^2*z + 54*a^4*b^2*c^3*d*j*k^2^1*m*z + 54*a^2*b^4*c^3*d^2*j*k^1*m*z + \\
& 27*a^3*b^4*c^2*g*h*j^2^1*m*z - 27*a^3*b^4*c^2*e*j*k^2^1*z - 27*a^2*b^5*c^2*f \\
& ^2*h*k^1*m*z - 27*a^2*b^5*c^2*f^2*g^1*m*z + 162*a^4*b^2*c^3*d*j*k^1^2*z - 162 \\
& *a^3*b^3*c^3*e*g^2^1*m*z + 108*a^4*b^2*c^3*e*h*k^2^1*m*z + 108*a^3*b^2*c^4*d^ \\
& 2*h^1*m*z - 54*a^4*b^2*c^3*f*g*k^2^1*m*z - 27*a^3*b^4*c^2*e*h*k^2^1*m*z - 27*a^ \\
& 3*b^4*c^2*d*j*k^1^2*z + 27*a^3*b^3*c^3*g^2*h*j^1*z + 27*a^2*b^5*c^2*e*g^2^1 \\
& *m*z - 27*a^2*b^4*c^3*d^2*h^1*m*z + 270*a^4*b^2*c^3*f*h*j^1^2*z - 270*a^3*b \\
& ^2*c^4*e^2*h*j^1*m*z - 162*a^4*b^2*c^3*e*h*k^1^2*z - 162*a^3*b^3*c^3*d*h^2*k^ \\
& m*z + 162*a^3*b^2*c^4*e^2*h*k^1*z + 108*a^4*b^2*c^3*d*g^1^2*m*z + 108*a^3*b \\
& ^2*c^4*e^2*g*k^1*m*z - 54*a^4*b^2*c^3*e*f^1^2*m*z - 54*a^3*b^4*c^2*f*h*j^1^2* \\
& z + 54*a^3*b^3*c^3*f*h^2*j^1*z - 54*a^3*b^3*c^3*e*h^2*j^1*m*z + 54*a^3*b^2*c^ \\
& 4*e^2*f^1*m*z + 54*a^2*b^4*c^3*e^2*h*j^1*m*z + 27*a^3*b^4*c^2*e*h*k^1^2*z - 2 \\
& 7*a^3*b^4*c^2*d*g^1^2*m*z + 27*a^3*b^3*c^3*g*h^2*j*k^1*z + 27*a^2*b^5*c^2*d*h \\
& ^2*k^1*m*z - 27*a^2*b^4*c^3*e^2*h*k^1*z - 27*a^2*b^4*c^3*e^2*g*k^1*m*z + 432*a^
\end{aligned}$$

$$\begin{aligned}
& 4*b^2*c^3*e*g*j*m^2*z + 432*a^4*b^2*c^3*d*h*j*m^2*z - 270*a^4*b^2*c^3*d*g*k \\
& *m^2*z - 216*a^3*b^4*c^2*e*g*j*m^2*z - 216*a^3*b^4*c^2*d*h*j*m^2*z + 216*a^ \\
& 3*b^3*c^3*e*g*j^2*m*z + 216*a^3*b^3*c^3*d*h*j^2*m*z - 162*a^3*b^2*c^4*e*f^2 \\
& *k*m*z - 162*a^3*b^2*c^4*d*f^2*l*m*z - 108*a^3*b^2*c^4*f^2*h*j*k*z - 108*a^ \\
& 3*b^2*c^4*f^2*g*j*l*z + 54*a^4*b^2*c^3*e*f*k*m^2*z + 54*a^4*b^2*c^3*d*f*l*m \\
& ^2*z + 54*a^3*b^4*c^2*d*g*k*m^2*z - 54*a^3*b^3*c^3*f*h*j^2*k*z - 54*a^3*b^3 \\
& *c^3*f*g*j^2*l*z - 27*a^2*b^5*c^2*e*g*j^2*m*z - 27*a^2*b^5*c^2*d*h*j^2*m*z \\
& + 27*a^2*b^4*c^3*f^2*h*j*k*z + 27*a^2*b^4*c^3*f^2*g*j*l*z + 27*a^2*b^4*c^3 \\
& e*f^2*k*m*z + 27*a^2*b^4*c^3*d*f^2*l*m*z + 324*a^2*b^3*c^4*d^2*g*j*m*z - 27 \\
& 0*a^3*b^2*c^4*d*g^2*j*m*z - 162*a^3*b^2*c^4*f^2*g*h*m*z + 162*a^3*b^2*c^4*e \\
& *g^2*j*l*z - 162*a^2*b^3*c^4*d^2*e*l*m*z - 135*a^2*b^3*c^4*d^2*g*k*l*z + 10 \\
& 8*a^3*b^2*c^4*d*g^2*k*l*z + 54*a^4*b^2*c^3*f*g*h*m^2*z + 54*a^3*b^3*c^3*f*g \\
& *j*k^2*z - 54*a^3*b^2*c^4*f*g^2*j*k*z + 54*a^2*b^4*c^3*d*g^2*j*m*z - 54*a^2 \\
& *b^3*c^4*d^2*f*k*m*z + 27*a^3*b^3*c^3*e*h*j*k^2*z + 27*a^3*b^3*c^3*d*g*k^2* \\
& l*z + 27*a^2*b^4*c^3*f^2*g*h*m*z - 27*a^2*b^4*c^3*e*g^2*j*l*z - 27*a^2*b^4 \\
& c^3*d*g^2*k*l*z + 27*a^2*b^3*c^4*d^2*h*j*l*z + 162*a^3*b^2*c^4*d*h^2*j*k*z \\
& - 162*a^2*b^3*c^4*d*e^2*k*m*z + 108*a^3*b^2*c^4*e*g^2*h*m*z + 54*a^3*b^3*c^ \\
& 3*e*f*j^2*z + 27*a^3*b^3*c^3*d*g*j^2*z - 27*a^2*b^4*c^3*e*g^2*h*m*z - 2 \\
& 7*a^2*b^4*c^3*d*h^2*j*k*z + 27*a^2*b^3*c^4*e^2*g*j*k*z - 621*a^3*b^3*c^3*d* \\
& e*j*m^2*z + 594*a^3*b^2*c^4*d*e*j^2*m*z + 243*a^2*b^5*c^2*d*e*j*m^2*z - 243 \\
& *a^2*b^4*c^3*d*e*j^2*m*z + 135*a^3*b^3*c^3*e*g*h*l^2*z - 108*a^3*b^2*c^4*e* \\
& g*h^2*l*z + 108*a^3*b^2*c^4*d*g*h^2*m*z + 54*a^3*b^2*c^4*e*f*j^2*k*z + 54*a \\
& ^3*b^2*c^4*e*f*h^2*m*z + 54*a^3*b^2*c^4*d*g*j^2*k*z + 54*a^3*b^2*c^4*d*f*j^ \\
& 2*l*z - 54*a^2*b^3*c^4*e^2*f*h*m*z - 27*a^2*b^5*c^2*e*g*h*l^2*z + 27*a^2*b^ \\
& 4*c^3*e*g*h^2*l*z - 27*a^2*b^4*c^3*d*g*h^2*m*z - 27*a^2*b^3*c^4*e^2*g*h*l*z \\
& - 27*a^2*b^3*c^4*e*f^2*j*k*z - 27*a^2*b^3*c^4*d*f^2*j*l*z + 162*a^2*b^2*c^ \\
& 5*d^2*e*j*l*z + 54*a^3*b^2*c^4*f*g*h*j^2*z - 54*a^3*b^2*c^4*d*f*j*k^2*z + 5 \\
& 4*a^2*b^3*c^4*e*f^2*h*l*z + 54*a^2*b^2*c^5*d^2*f*j*k*z - 27*a^2*b^3*c^4*f^2 \\
& *g*h*j*z - 270*a^2*b^2*c^5*d^2*f*g*m*z - 162*a^3*b^2*c^4*d*g*h*k^2*z + 162* \\
& a^2*b^2*c^5*d^2*g*h*k*z + 162*a^2*b^2*c^5*d*e^2*j*k*z + 108*a^2*b^2*c^5*d^2 \\
& *e*h*m*z - 54*a^2*b^3*c^4*d*f*g^2*m*z + 27*a^2*b^4*c^3*d*g*h*k^2*z + 27*a^2 \\
& *b^3*c^4*e*g^2*h*j*z + 270*a^3*b^2*c^4*d*e*h*l^2*z - 270*a^2*b^2*c^5*d*e^2* \\
& h*l*z - 162*a^2*b^4*c^3*d*e*h*l^2*z + 108*a^2*b^3*c^4*d*e*h^2*l*z + 108*a^2 \\
& *b^2*c^5*d*e^2*g*m*z + 54*a^2*b^2*c^5*e^2*f*h*j*z + 27*a^2*b^3*c^4*d*g*h^2* \\
& j*z + 162*a^2*b^2*c^5*d*e*f^2*m*z - 54*a^3*b^2*c^4*d*e*f*m^2*z - 54*a^2*b^2 \\
& *c^5*d*f^2*g*k*z + 135*a^2*b^3*c^4*d*d*e*g*k^2*z - 108*a^2*b^2*c^5*d*e*g^2*k* \\
& z + 54*a^2*b^2*c^5*d*f*g^2*j*z - 54*a^2*b^2*c^5*d*e*f*j^2*z - 9*a*b^7*c*d*e \\
& *l^3*z - 36*a*b*c^7*d^3*e*g*z - 108*a^6*b*c^2*k^2*l^2*m*z + 27*a^5*b^3*c*k^ \\
& 2*l^2*m*z - 18*a^5*b^2*c^2*j*k^3*m*z - 27*a^4*b^3*c^2*j^3*k*l*z - 108*a^5*b \\
& *c^3*h^2*k^2*m*z - 108*a^5*b*c^3*g^2*l^2*m*z + 108*a^5*b*c^3*h^2*k*l^2*z + \\
& 108*a^5*b*c^3*g^2*k*m^2*z + 90*a^5*b^2*c^2*f*l^3*m*z - 18*a^5*b^2*c^2*h*k*l \\
& ^3*z + 18*a^4*b^2*c^3*h^3*k*l*z + 18*a^4*b^2*c^3*h^3*j*m*z - 108*a^5*b*c^3* \\
& h*j^2*l^2*z + 18*a^4*b^3*c^2*f*k^3*m*z - 18*a^3*b^3*c^3*g^3*j*m*z - 9*a^4*b \\
& ^3*c^2*g*k^3*l*z + 9*a^3*b^3*c^3*g^3*k*l*z + 252*a^4*b^2*c^3*f*j^3*m*z + 21 \\
& 6*a^5*b*c^3*f*j^2*m^2*z + 180*a^3*b^2*c^4*f^3*j*m*z - 108*a^4*b*c^4*e^2*k^2
\end{aligned}$$

$$\begin{aligned}
& *m*z - 108*a^4*b*c^4*d^2*l^2*m*z + 90*a^5*b^2*c^2*e*k*m^3*z + 90*a^5*b^2*c^2*d*l*m^3*z - 90*a^3*b^2*c^4*f^3*k*l*z + 54*a^3*b^5*c*f*j^2*m^2*z - 54*a^3*b^4*c^2*f*j^3*m*z + 36*a^5*b^2*c^2*f*j*m^3*z + 36*a^4*b^2*c^3*h*j^3*k*z + 36*a^4*b^2*c^3*g*j^3*l*z - 36*a^2*b^4*c^3*f^3*j*m*z - 27*a^2*b^6*c*f^2*j*m^2*z + 18*a^2*b^4*c^3*f^3*k*l*z - 216*a^4*b*c^4*d^2*k*m^2*z + 108*a^5*b*c^3*d*k^2*m^2*z - 108*a^4*b^3*c^2*f*j*l^3*z - 108*a^4*b*c^4*g^2*h^2*m*z + 108*a^2*b^3*c^4*e^3*j*m*z + 90*a^5*b^2*c^2*g*h*m^3*z + 54*a^4*b^3*c^2*e*k*l^3*z - 54*a^2*b^3*c^4*e^3*k*l*z + 234*a^2*b^2*c^5*d^3*j*m*z - 144*a^2*b^2*c^5*d^3*k*l*z + 90*a^4*b^2*c^3*f*j*k^3*z - 72*a^4*b^2*c^3*d*k^3*l*z + 27*a^4*b^3*c^2*g*h*l^3*z - 27*a^3*b^3*c^3*g*h^3*l*z - 18*a^3*b^4*c^2*f*j*k^3*z + 9*a^3*b^4*c^2*d*k^3*l*z + 216*a^4*b*c^4*f^2*h*l^2*z - 216*a^4*b*c^4*e^2*h*m^2*z + 108*a^4*b*c^4*g^2*h*k^2*z - 18*a^4*b^2*c^3*g*h*k^3*z + 18*a^3*b^2*c^4*g^3*h*k*z + 18*a^3*b^2*c^4*f*g^3*m*z + 9*a^3*b^4*c^2*g*h*k^3*z - 9*a^3*b^3*c^3*e*j^3*k*z - 9*a^3*b^3*c^3*d*j^3*l*z - 144*a^4*b^3*c^2*e*g*m^3*z - 144*a^4*b^3*c^2*d*h*m^3*z - 108*a^3*b*c^5*e^2*g^2*m*z + 108*a^3*b*c^5*d^2*j^2*k*z - 108*a^3*b*c^5*d^2*h^2*m*z - 18*a^2*b^3*c^4*f^3*h*k*z - 18*a^2*b^3*c^4*f^3*g*l*z - 9*a^3*b^3*c^3*g*h*j^3*z - 216*a^4*b*c^4*d*g^2*m^2*z + 144*a^4*b^2*c^3*e*g*l^3*z - 126*a^3*b^2*c^4*d*h^3*l*z - 108*a^4*b*c^4*d*h^2*l^2*z - 108*a^3*b*c^5*f^2*g^2*k*z - 108*a^3*b*c^5*e^2*h^2*k*z - 90*a^2*b^2*c^5*e^3*f*m*z + 72*a^2*b^2*c^5*e^3*g*l*z - 63*a^3*b^4*c^2*e*g*l^3*z - 36*a^3*b^4*c^2*d*h*l^3*z + 27*a^2*b^4*c^3*d*h^3*l*z + 27*a*b^6*c^2*d^2*g*m^2*z - 18*a^4*b^2*c^3*d*h*l^3*z - 18*a^3*b^2*c^4*f*h^3*j*z - 18*a^3*b^2*c^4*e*h^3*k*z + 18*a^2*b^2*c^5*e^3*h*k*z + 108*a^3*b*c^5*e^2*h*j^2*z + 54*a^3*b^3*c^3*d*h*k^3*z + 27*a^3*b^3*c^3*e*g*k^3*z - 27*a^2*b^3*c^4*e*g^3*k*z + 27*a^2*b^3*c^4*d*g^3*l*z - 27*a*b^4*c^4*d^2*g^2*l*z - 9*a^2*b^5*c^2*e*g*k^3*z - 9*a^2*b^5*c^2*d*h*k^3*z + 207*a^3*b^4*c^2*d*e*m^3*z - 108*a^2*b*c^6*d^2*e^2*m*z - 90*a^4*b^2*c^3*d*e*m^3*z - 72*a^3*b^2*c^4*e*g*j^3*z - 72*a^3*b^2*c^4*d*h*j^3*z + 27*a*b^3*c^5*d^2*e^2*m*z + 18*a^2*b^2*c^5*e*f^3*k*z + 18*a^2*b^2*c^5*d*f^3*l*z + 9*a^2*b^4*c^3*e*g*j^3*z + 9*a^2*b^4*c^3*d*h*j^3*z - 216*a^3*b*c^5*d*e^2*l^2*z - 198*a^3*b^3*c^3*d*e*l^3*z + 108*a^3*b*c^5*d*g^2*j^2*z - 108*a^3*b*c^5*d*f^2*k^2*z + 72*a^2*b^5*c^2*d*e*l^3*z - 27*a*b^5*c^3*d*e^2*l^2*z + 27*a*b^4*c^4*d^2*g*j^2*z + 18*a^2*b^2*c^5*f^3*g*h*z + 144*a^3*b^2*c^4*d*e*k^3*z - 63*a^2*b^4*c^3*d*e*k^3*z + 27*a*b^4*c^4*d^2*e*k^2*z - 9*a^2*b^3*c^4*e*g*h^3*z - 108*a^2*b*c^6*d^2*g^2*h*z + 81*a^2*b^3*c^4*d*e*j^3*z + 27*a*b^3*c^5*d^2*g^2*h*z - 27*a*b^2*c^6*d^2*e^2*j*z - 18*a^2*b^2*c^5*d*g^3*h*z + 108*a^2*b*c^6*d*e^2*h^2*z - 27*a*b^3*c^5*d*e^2*h^2*z + 27*a*b^2*c^6*d^2*f^2*g*z - 18*a^2*b^2*c^5*d*e*h^3*z - 216*a^6*c^3*j^2*k*l*m*z + 216*a^6*c^3*h*j*l^2*m*z + 216*a^6*c^3*f*k*l*m^2*z - 216*a^5*c^4*f^2*k*l*m*z - 216*a^5*c^4*g^2*j*k*m*z + 216*a^5*c^4*f*j^2*k*l*z + 216*a^5*c^4*f*h^2*l*m*z + 216*a^5*c^4*e*j^2*k*m*z + 216*a^5*c^4*d*j^2*l*m*z + 216*a^5*c^4*g*h*j^2*m*z - 216*a^5*c^4*e*j*k^2*l*z - 216*a^5*c^4*d*j*k^2*m*z + 216*a^4*c^5*d^2*j*k*m*z - 18*a^6*b^2*c*k*l*m^3*z + 216*a^5*c^4*f*g*k^2*m*z - 216*a^5*c^4*d*j*k*l^2*z - 72*a^6*b*c^2*j*l^3*m*z + 18*a^5*b^3*c*j*l^3*m*z - 216*a^5*c^4*f*h*j*l^2*z + 216*a^5*c^4*e*h*k*l^2*z + 216*a^5*c^4*e*f*l^2*m*z - 216*a^4*c^5*e^2*h*k*l*z + 216*a^4*c^5*e^2*h*j*m*z - 216*a^4*c^5*e^2*f*l*m*z - 216*a^5*c^4*e*f*k*m^2*z +
\end{aligned}$$

$$\begin{aligned}
& 216a^5c^4d^2g^2k^2m^2z - 216a^5c^4d^2f^2l^2m^2z + 216a^4c^5e^2f^2k^2m^2z + 216a^4c^5d^2f^2l^2m^2z + 108a^5b^3c^3j^3k^2l^2z - 216a^5c^4f^2g^2h^2m^2z + 216a^4c^5f^2g^2h^2m^2z + 216a^4c^5f^2g^2j^2k^2z - 216a^4c^5e^2g^2j^2l^2z + 216a^4c^5d^2g^2j^2m^2z - 72a^6b^2c^2h^2k^2m^3z - 72a^6b^2c^2g^2l^2m^3z + 54a^5b^3c^2h^2k^2m^3z + 54a^5b^3c^2g^2l^2m^3z - 216a^4c^5d^2h^2j^2k^2z - 18a^4b^4c^2f^2l^3m^2z + 9a^4b^4c^2h^2k^2l^3z - 216a^4c^5e^2f^2j^2k^2z - 216a^4c^5e^2f^2h^2m^2z - 216a^4c^5d^2g^2j^2k^2z - 216a^4c^5d^2f^2j^2l^2z - 216a^4c^5d^2e^2j^2m^2z - 72a^5b^3c^3f^2k^3m^2z + 72a^4b^3c^4g^3j^2m^2z + 36a^5b^3c^3g^2k^3l^2z - 36a^4b^3c^4g^3k^2l^2z - 216a^4c^5f^2g^2h^2j^2z + 216a^4c^5d^2f^2j^2k^2z - 216a^3c^6d^2f^2j^2k^2z - 216a^3c^6d^2e^2j^2l^2z + 72a^4b^4c^2f^2j^2m^3z - 63a^4b^4c^2e^2k^2m^3z - 63a^4b^4c^2d^2l^2m^3z + 216a^4c^5d^2g^2h^2k^2z - 216a^3c^6d^2g^2h^2k^2z + 216a^3c^6d^2f^2g^2m^2z - 216a^3c^6d^2e^2j^2k^2z + 144a^5b^3c^3f^2j^2l^3z - 144a^3b^3c^5e^3j^2m^2z - 72a^5b^3c^3e^2k^2l^3z + 72a^3b^3c^5e^3k^2l^2z - 63a^4b^4c^2g^2h^2m^3z + 18a^3b^5c^2f^2j^2l^3z - 18a^3b^5c^3e^3j^2m^2z - 9a^3b^5c^2e^2k^2l^3z + 9a^3b^5c^3e^3k^2l^2z - 216a^4c^5d^2e^2h^2l^2z - 216a^3c^6e^2f^2h^2j^2z + 216a^3c^6d^2e^2h^2l^2z - 126a^4b^4c^4d^3j^2m^2z + 108a^4b^4c^4g^2h^3l^2z + 63a^4b^4c^4d^3k^2l^2z + 36a^5b^3c^3g^2h^2l^3z - 9a^3b^5c^2g^2h^2l^3z + 216a^4c^5d^2e^2f^2m^2z + 216a^3c^6d^2f^2g^2k^2z - 216a^3c^6d^2e^2f^2m^2z + 36a^4b^3c^4e^2j^3k^2z + 36a^4b^3c^4d^2j^3l^2z - 216a^3c^6d^2f^2g^2j^2z + 72a^3b^5c^2e^2g^2m^3z + 72a^3b^5c^2d^2h^2m^3z + 72a^3b^5c^2f^2h^2k^2z + 72a^3b^5c^2f^2g^2l^2z + 36a^4b^3c^4g^2h^2j^3z + 18a^4b^3c^4e^3f^2m^2z + 9a^2b^6c^2e^2g^2l^3z + 9a^2b^6c^2d^2h^2l^3z - 9a^4b^4c^4e^3h^2k^2z - 9a^4b^4c^4e^3g^2l^2z + 216a^3c^6d^2e^2f^2j^2z - 144a^2b^3c^6d^3f^2m^2z + 108a^3b^3c^5e^2g^3k^2z - 108a^3b^3c^5d^2g^3l^2z + 108a^4b^3c^5d^3f^2m^2z - 72a^4b^3c^4d^2h^2k^3z + 72a^2b^3c^6d^3h^2k^2z - 54a^4b^3c^5d^3h^2k^2z + 36a^4b^3c^4e^2g^2k^3z - 36a^2b^3c^6d^3g^2l^2z - 27a^4b^3c^5d^3g^2l^2z - 81a^2b^6c^2d^2e^2m^3z + 216a^4b^3c^4d^2e^2l^3z + 72a^2b^3c^6e^3f^2j^2z + 72a^2b^3c^6d^2e^3l^2z - 18a^4b^3c^5e^3f^2j^2z - 18a^4b^3c^5d^2e^3l^2z - 90a^4b^2c^6d^3f^2j^2z + 72a^4b^2c^6d^3e^2k^2z + 36a^3b^3c^5e^2g^2h^3z - 36a^2b^3c^6e^3g^2h^2z + 9a^4b^6c^2d^2e^2k^3z + 9a^4b^6c^2f^2g^2h^3z - 180a^3b^3c^5d^2e^2j^3z + 18a^4b^2c^6d^3g^2h^2z - 9a^4b^5c^3d^2e^2j^3z + 18a^4b^2c^6d^2e^3h^2z + 9a^4b^4c^4d^2e^2h^3z + 36a^2b^3c^6d^2e^2g^3z - 9a^4b^3c^5d^2e^2g^3z - 18a^4b^2c^6d^2e^2f^3z + 27a^5b^2c^2h^2l^2m^2z - 27a^5b^2c^2j^2k^2l^2z + 27a^4b^3c^2h^2k^2m^2z + 27a^4b^3c^2g^2l^2m^2z + 27a^5b^2c^2g^2k^2m^2z - 135a^4b^2c^3e^2l^2m^2z + 27a^5b^2c^2e^2l^2m^2z + 27a^4b^3c^2h^2j^2l^2z - 27a^4b^2c^3h^2j^2l^2z + 27a^3b^4c^2e^2l^2m^2z - 270a^4b^3c^2f^2j^2m^2z - 270a^4b^2c^3f^2j^2m^2z + 162a^3b^4c^2f^2j^2m^2z - 108a^3b^3c^3f^2j^2m^2z - 27a^4b^2c^3h^2j^2k^2z - 27a^4b^2c^3g^2j^2l^2z + 27a^3b^3c^3e^2k^2m^2z + 27a^3b^3c^3d^2l^2m^2z + 27a^2b^5c^2f^2j^2m^2z + 162a^3b^3c^3d^2k^2m^2z - 27a^4b^3c^2d^2k^2m^2z - 27a^4b^2c^3g^2j^2k^2z + 27a^3b^3c^3g^2h^2m^2z - 27a^2b^5c^2d^2k^2m^2z + 162a^3b^2c^4d^2k^2l^2z - 108a^4b^2c^3g^2h^2l^2z -
\end{aligned}$$

$$\begin{aligned}
& 27a^4b^2c^3e^*j^2l^2z + 27a^3b^4c^2g^*h^2l^2z + 27a^3b^2c^4e^2j^2l^2z - 27a^2b^4c^3d^2k^2l^2z - 162a^3b^3c^3f^2h^2l^2z + 162a^3b^3c^3e^2h^2m^2z - 135a^4b^2c^3e^*h^2m^2z + 135a^3b^2c^4f^2h^2l^2z + 27a^3b^4c^2e^*h^2m^2z - 27a^3b^3c^3g^2h^2k^2z - 27a^3b^2c^4e^2j^2k^2z - 27a^3b^2c^4d^2j^2l^2z + 27a^2b^5c^2f^2h^2l^2z - 27a^2b^5c^2e^2h^2m^2z - 27a^2b^4c^3f^2h^2l^2z - 27a^3b^2c^4g^2h^2j^2z + 27a^2b^3c^4e^2g^2m^2z - 27a^2b^3c^4d^2j^2k^2z + 27a^2b^3c^4d^2h^2m^2z + 351a^3b^2c^4d^2g^2m^2z - 189a^2b^4c^3d^2g^2m^2z + 162a^3b^3c^3d^2g^2m^2z - 162a^3b^2c^4e^2g^2l^2z + 135a^3b^3c^3d^2h^2l^2z + 135a^3b^2c^4f^2g^2k^2z - 27a^2b^5c^2d^2h^2l^2z - 27a^2b^5c^2d^2g^2m^2z - 27a^2b^4c^3f^2g^2k^2z + 27a^2b^4c^3e^2g^2l^2z + 27a^2b^3c^4f^2g^2k^2z + 27a^2b^3c^4e^2h^2k^2z + 135a^3b^2c^4e^*f^2l^2z - 108a^3b^2c^4e^*g^2k^2z + 108a^2b^2c^5d^2g^2l^2z + 27a^3b^2c^4e^*h^2j^2z + 27a^2b^4c^3e^*g^2k^2z - 27a^2b^4c^3e^*f^2l^2z - 27a^2b^3c^4e^2h^2j^2z - 27a^2b^2c^5e^2f^2l^2z - 27a^2b^2c^5e^2g^2j^2z - 27a^2b^2c^5d^2h^2j^2z + 162a^2b^3c^4d^2e^2l^2z - 135a^2b^2c^5d^2g^2j^2z - 27a^2b^3c^4d^2g^2j^2z + 27a^2b^3c^4d^2f^2k^2z - 162a^2b^2c^5d^2e^2k^2z - 27a^2b^2c^5e^*f^2h^2z - 72a^7c^2k^1m^3z + 9a^5b^4k^1m^3z + 72a^6c^3j^2k^3m^3z - 72a^6c^3h^2k^1l^3z - 72a^6c^3f^1l^3m^3z - 72a^5c^4h^3k^1l^3z - 72a^5c^4h^3j^2m^3z - 9a^4b^5h^2k^1m^3z - 9a^4b^5g^2l^1m^3z - 144a^6c^3f^1j^2m^3z - 144a^5c^4h^2j^3k^2z - 144a^5c^4g^2j^3l^2z - 144a^5c^4f^1j^3m^3z - 144a^4c^5f^3j^2m^3z + 72a^6c^3e^2k^1m^3z + 72a^6c^3d^1m^3z + 72a^4c^5f^3k^1l^2z + 72a^6c^3g^2h^2m^3z + 18b^6c^3d^3j^2m^3z - 18a^3b^6f^1j^2m^3z - 9b^6c^3d^3k^1l^2z + 9a^3b^6e^2k^1m^3z + 9a^3b^6d^1m^3z + 144a^5c^4d^2k^3l^2z + 144a^3c^6d^3k^1l^2z - 72a^5c^4f^1j^2k^3z - 72a^3c^6d^3j^2m^3z + 9a^3b^6g^2h^2m^3z - 72a^5c^4g^2h^2k^3z - 72a^4c^5g^3h^2k^2z - 72a^4c^5f^2g^3m^3z - 108a^5b^3c^3j^4m^3z + 63a^6b^2c^3j^2m^4z + 36a^6b^2c^2k^1l^4z - 9a^5b^3c^3k^1l^4z - 144a^5c^4e^2g^2l^3z - 144a^3c^6e^3g^2l^2z + 72a^5c^4d^2h^2l^3z + 72a^4c^5f^2h^3j^2z + 72a^4c^5e^2h^3k^2z + 72a^4c^5d^2h^3l^2z + 72a^3c^6e^3h^2k^2z + 72a^3c^6e^3f^2m^3z - 18b^5c^4d^3f^2m^3z + 9b^5c^4d^3h^2k^2z + 9b^5c^4d^3g^2l^2z - 9a^2b^7e^2g^2m^3z - 9a^2b^7d^2h^2m^3z + 144a^4c^5e^2g^2j^3z + 144a^4c^5d^2h^2j^3z - 72a^5c^4d^2e^2m^3z - 72a^3c^6e^2f^3k^2z - 72a^3c^6d^2f^3l^2z + 144a^6b^2c^2f^2m^4z - 108a^5b^3c^3f^2m^4z - 72a^3c^6f^3g^2h^2z + 36a^5b^2c^3h^2k^4z - 36a^3b^2c^5f^4m^3z + 18b^4c^5d^3f^2j^2z - 9b^4c^5d^3e^2k^2z + 9a^4b^4c^2g^2l^4z - 144a^4c^5d^2e^2k^3z - 144a^2c^7d^3e^2k^2z + 72a^2c^7d^3f^2j^2z - 9b^4c^5d^3g^2h^2z + 72a^3c^6d^2g^3h^2z + 72a^2c^7d^3g^2h^2z - 72a^5b^2c^3d^1l^4z - 72a^4b^2c^4f^2j^4z + 45a^2b^2c^6d^4l^2z - 36a^2b^2c^6e^4k^2z - 9a^3b^5c^2d^1l^4z + 9a^2b^3c^5e^4k^2z - 72a^3c^6d^2e^2h^3z - 72a^2c^7d^2e^3h^2z + 9b^3c^6d^3e^2g^2z + 72a^2c^7d^2e^2f^3z + 36a^3b^2c^5d^2h^4z - 9a^2b^2c^6e^4g^2z + 36a^2b^2c^7d^3f^2z + 90a^5b^2c^2j^3m^2z + 45a^5b^2c^2j^2l^3z + 9a^4b^3c^2j^2k^3z - 9a^4b^3c^2h^3m^2z - 45a^4b^2c^3g^3m^2z + 9a^3b^4c^2g^3m^2z +
\end{aligned}$$

$$\begin{aligned}
& c^2*d*e*f*g*h*j*k - 9*a*b^4*c^3*d*e*f*h*j*k - 9*a*b^4*c^3*d*e*f*g*j*k - 9*a*b^4*c^3*d*e*f*g*h*m + 9*a*b^3*c^4*d*e*f*g*h*j - 9*a*b^6*c*d*e*f*k^1*m + 18*a^4*b^2*c^2*e*g*j*k^1*m + 18*a^4*b^2*c^2*d*h*j*k^1*m + 18*a^4*b^2*c^2*f*g*h*k^1*m - 36*a^3*b^3*c^2*d*e*j*k^1*m - 36*a^3*b^3*c^2*e*f*g*k^1*m - 36*a^3*b^3*c^2*d*f*h*k^1*m + 9*a^3*b^3*c^2*f*g*h*j*k^1 + 9*a^3*b^3*c^2*e*g*h*j*k^1*m + 9*a^3*b^3*c^2*d*g*h*j^1*m - 108*a^3*b^2*c^3*d*e*f*k^1*m + 54*a^2*b^4*c^2*d*e*f*k^1*m - 36*a^3*b^2*c^3*d*f*g*j*k^1*m + 18*a^3*b^2*c^3*e*f*g*j*k^1 + 18*a^3*b^2*c^3*d*f*h*j*k^1 + 18*a^3*b^2*c^3*d*e*h*j*k^1*m + 18*a^3*b^2*c^3*d*e*g*j^1*m - 9*a^2*b^4*c^2*e*f*g*j*k^1 - 9*a^2*b^4*c^2*d*f*h*j*k^1 - 9*a^2*b^4*c^2*d*e*h*j*k^1*m - 9*a^2*b^4*c^2*d*e*g*j^1*m + 18*a^3*b^2*c^3*e*f*g*h*k^1*m + 18*a^3*b^2*c^3*d*f*g*h^1*m - 9*a^2*b^4*c^2*e*f*g*h*k^1*m - 9*a^2*b^4*c^2*d*f*g*h^1*m - 36*a^2*b^3*c^3*d*e*f*j*k^1 - 36*a^2*b^3*c^3*d*e*f*h*k^1*m - 36*a^2*b^3*c^3*d*e*f*g^1*m + 9*a^2*b^3*c^3*e*f*g*h*j*k + 9*a^2*b^3*c^3*d*f*g*h*j^1 + 9*a^2*b^3*c^3*d*e*g*h*j^1*m + 18*a^2*b^2*c^4*d*e*f*h*j*k + 18*a^2*b^2*c^4*d*e*f*g*j^1 + 18*a^2*b^2*c^4*d*e*f*g*h^1*m - 9*a^5*b^2*c^3*h*j*k^2*1*m - 9*a^5*b^2*c^3*g*j*k^1*2*m + 27*a^5*b^2*c^3*f*j*k^1*m^2 - 9*a^4*b^3*c^3*f*j^2*k^1*m + 9*a^3*b^4*c^3*f^2*j*k^1*m - 18*a^5*b^2*c^2*e*j*k^2*1*m - 9*a^5*b^2*c^2*g*h*k^1*m^2 + 9*a^4*b^3*c^2*e*j*k^2*1*m - 18*a^5*b^2*c^2*f*h*k^2*1*m - 18*a^5*b^2*c^2*d*j*k^1*2*m + 9*a^4*b^3*c^2*f*h*k^2*1*m + 9*a^4*b^3*c^2*d*j*k^1*2*m + 36*a^5*b^2*c^2*e*h*k^1*2*m - 36*a^4*b^3*c^3*e^2*h*k^1*m + 18*a^5*b^2*c^2*f*h*j^1*2*m - 18*a^5*b^2*c^2*f*g*k^1*2*m - 18*a^4*b^3*c^2*e*h*k^1*2*m + 9*a^4*b^3*c^2*f*g*k^1*2*m + 9*a^3*b^4*c^2*e*h^2*k^1*m - 9*a^2*b^5*c^2*e^2*h*k^1*m - 54*a^5*b^2*c^2*e*h*j^1*m^2 - 18*a^5*b^2*c^2*e*g*k^1*m^2 - 18*a^5*b^2*c^2*d*h*k^1*m^2 + 18*a^4*b^3*c^2*e*h*j^1*m^2 - 9*a^4*b^3*c^2*f*h*j*k^1*m^2 - 9*a^4*b^3*c^2*f*g*j^1*m^2 + 9*a^4*b^3*c^2*e*g*k^1*m^2 + 9*a^4*b^3*c^2*d*h*k^1*m^2 + 18*a^4*b^3*c^2*f*g^2*j*k^1*m - 18*a^4*b^3*c^2*e*g^2*j^1*m + 18*a^3*b^4*c^2*d*g*k^2*1*m - 9*a^3*b^4*c^2*e*f*k^2*1*m - 9*a^2*b^5*c^2*d*g^2*k^1*m - 18*a^4*b^3*c^3*f*g^2*h^1*m - 18*a^4*b^3*c^3*d*h^2*j*k^1*m - 9*a^3*b^4*c^3*d*f*k^1*2*m - 54*a^4*b^3*c^3*d*g*j^2*k^1*m - 18*a^4*b^3*c^3*f*g*h^2*k^1*m - 18*a^4*b^3*c^3*e*g*j^2*k^1 - 18*a^4*b^3*c^3*d*h*j^2*k^1 - 18*a^3*b^4*c^3*d*g*j*k^1*m^2 + 9*a^3*b^4*c^3*e*f*j*k^1*m^2 + 9*a^3*b^4*c^3*d*f*j^1*m^2 - 9*a^3*b^4*c^3*d*e*k^1*m^2 - 54*a^3*b^4*c^3*d^2*f*j*k^1*m + 36*a^4*b^3*c^3*d*g*j*k^2*1 - 36*a^3*b^4*c^4*d^2*g*j*k^1 - 18*a^4*b^3*c^3*e*f*j*k^2*1 + 18*a^4*b^3*c^3*d*f*j*k^2*1 - 18*a^3*b^4*c^4*d^2*e*j^1*m + 9*a^3*b^4*c^3*f*g*h*j^1*m^2 - 9*a*b^5*c^2*d^2*g*j*k^1 + 36*a^4*b^3*c^3*d*g*h*k^2*1 - 36*a^3*b^4*c^4*d^2*g*h*k^1*m + 18*a^4*b^3*c^3*e*g*h*k^2*1 - 18*a^4*b^3*c^3*e*f*h*k^2*1 - 18*a^4*b^3*c^3*d*f*j*k^1*2 - 18*a^3*b^4*c^4*d^2*f*h^1*m - 18*a^3*b^4*c^4*d*e^2*j*k^1 - 9*a*b^5*c^2*d^2*g*h*k^1 - 54*a^4*b^3*c^3*d*g*h*k^1*2 - 54*a^3*b^4*c^4*e^2*f*h*j^1 - 18*a^4*b^3*c^3*d*f*g^1*2*m - 18*a^3*b^4*c^4*e^2*f*g*k^1 - 54*a^4*b^3*c^3*d*f*g*k^1*m^2 - 36*a^4*b^3*c^3*e*f*g*j^1*m^2 - 36*a^4*b^3*c^3*d*f*h*j^1*m^2 + 36*a^3*b^4*c^4*e*f^2*g*j^1*m + 36*a^3*b^4*c^4*d*f^2*h*j^1 - 18*a^4*b^3*c^3*d*e*h*k^1*m^2 - 18*a^4*b^3*c^3*d*e*g^1*m^2 + 18*a^3*b^4*c^4*e*f^2*h*j^1 - 18*a^3*b^4*c^4*e*f^2*g*k^1 - 18*a^3*b^4*c^4*d*f^2*h*k^1 + 18*a^3*b^4*c^4*d*f^2*g*k^1 - 9*a^2*b^5*c^2*e*f*g*j^1*m^2 - 9*a^2*b^5*c^2*d*f*h*j^1*m^2 - 54*a^3*b^4*c^4*d*f*g^2*j^1 - 18*a^3*b^4*c^4*e*f*g^2*j^1 - 18*a*b^4*c^3*d^2*f*g*j^1 + 9*a*b^4*c^3*d^2*g*h*j^1 + 9*a*b^4*c^3*d^2*f*g*k^1 + 9*a*b^4*c^3*d^2*e*g*k^1 - 9*a*b^4*c^3*d^2*e*f^1*m - 18*a^3*b^4*c^4*e*f*g^2*h^1 - 18*a^3*b^4*c^4*d*f*h
\end{aligned}$$

$$\begin{aligned}
&^2*j*k - 9*a*b^4*c^3*d*e^2*f*k*m + 18*a^3*b*c^4*d*f*g*j^2*k - 18*a^3*b*c^4* \\
&d*f*g*h^2*m - 18*a^3*b*c^4*d*e*h*j^2*k - 18*a^3*b*c^4*d*e*g*j^2*k + 18*a*b^4* \\
&4*c^3*d*e*f^2*j*m - 9*a*b^5*c^2*d*e*f*j^2*m - 9*a*b^4*c^3*d*e*f^2*k*1 - 18* \\
&a^2*b*c^5*d^2*e*f*j*1 - 9*a*b^3*c^4*d^2*e*g*j*k + 9*a*b^3*c^4*d^2*e*f*j*1 - \\
&54*a^2*b*c^5*d^2*e*g*h*1 - 18*a^2*b*c^5*d^2*e*f*h*m - 18*a^2*b*c^5*d*e^2*f \\
&*j*k + 18*a*b^3*c^4*d^2*e*g*h*1 - 9*a*b^3*c^4*d^2*f*g*h*k + 9*a*b^3*c^4*d^2 \\
&*e*f*h*m + 9*a*b^3*c^4*d*e^2*f*j*k - 36*a^3*b*c^4*d*e*f*h*1^2 + 36*a^2*b*c^ \\
&5*d*e^2*f*h*1 + 18*a^2*b*c^5*d*e^2*g*h*k - 18*a^2*b*c^5*d*e^2*f*g*m - 18*a* \\
&b^3*c^4*d*e^2*f*h*1 - 9*a*b^5*c^2*d*e*f*h*1^2 + 9*a*b^4*c^3*d*e*f*h^2*1 + 9 \\
&*a*b^3*c^4*d*e^2*f*g*m - 18*a^2*b*c^5*d*e*f^2*h*k - 18*a^2*b*c^5*d*e*f^2*g* \\
&1 + 9*a*b^3*c^4*d*e*f^2*h*k + 9*a*b^3*c^4*d*e*f^2*g*1 + 27*a*b^2*c^5*d^2*e* \\
&f*g*k + 9*a*b^4*c^3*d*e*f*g*k^2 - 9*a*b^3*c^4*d*e*f*g^2*k - 9*a*b^2*c^5*d^2 \\
&*e*f*h*j - 9*a*b^2*c^5*d*e^2*f*g*j - 9*a*b^2*c^5*d*e*f^2*g*h + 72*a^4*c^4*d \\
&*f*g*j*k*m + 72*a^4*c^4*d*e*f*k*1*m + 9*a*b^6*c*d^2*g*k*1*m + 9*a*b^6*c*d*e \\
&*f*j*m^2 - 27*a^4*b^2*c^2*f^2*j*k*1*m - 9*a^4*b^2*c^2*g^2*h*j*1*m + 36*a^3* \\
&b^3*c^2*e^2*h*k*1*m - 18*a^4*b^2*c^2*e*h^2*k*1*m - 9*a^4*b^2*c^2*g*h^2*j*k* \\
&m + 18*a^4*b^2*c^2*f*h*j^2*k*m + 18*a^4*b^2*c^2*f*g*j^2*1*m - 18*a^4*b^2*c^ \\
&2*e*h*j^2*1*m - 9*a^4*b^2*c^2*g*h*j^2*k*1 - 9*a^3*b^3*c^2*f^2*h*j*k*m - 9*a \\
&^3*b^3*c^2*f^2*g*j*1*m - 63*a^4*b^2*c^2*d*g*k^2*1*m + 63*a^3*b^2*c^3*d^2*g* \\
&k*1*m - 45*a^2*b^4*c^2*d^2*g*k*1*m + 36*a^4*b^2*c^2*e*f*k^2*1*m + 27*a^3*b^ \\
&3*c^2*d*g^2*k*1*m - 9*a^4*b^2*c^2*f*h*j*k^2*1 - 9*a^4*b^2*c^2*e*h*j*k^2*m + \\
&9*a^3*b^3*c^2*e*g^2*j*1*m - 9*a^3*b^2*c^3*d^2*h*j*1*m + 36*a^4*b^2*c^2*d*f \\
&*k*1^2*m + 27*a^4*b^2*c^2*e*h*j*k*1^2 - 27*a^3*b^2*c^3*e^2*h*j*k*1 - 18*a^3 \\
&*b^2*c^3*e^2*f*j*1*m - 9*a^4*b^2*c^2*f*g*j*k*1^2 - 9*a^4*b^2*c^2*d*g*j*1^2* \\
&m + 9*a^3*b^3*c^2*f*g^2*h*1*m - 9*a^3*b^3*c^2*e*h^2*j*k*1 + 9*a^3*b^3*c^2*d \\
&*h^2*j*k*m - 9*a^3*b^2*c^3*e^2*g*j*k*m + 9*a^2*b^4*c^2*e^2*h*j*k*1 + 72*a^4 \\
&*b^2*c^2*d*g*j*k*m^2 + 36*a^4*b^2*c^2*d*e*k*1*m^2 + 27*a^4*b^2*c^2*e*g*h*1^ \\
&2*m - 27*a^4*b^2*c^2*e*f*j*k*m^2 - 27*a^4*b^2*c^2*d*f*j*1*m^2 - 27*a^3*b^2* \\
&c^3*e^2*g*h*1*m + 27*a^3*b^2*c^3*e*f^2*j*k*m + 27*a^3*b^2*c^3*d*f^2*j*1*m + \\
&18*a^3*b^3*c^2*d*g*j^2*k*m + 9*a^3*b^3*c^2*f*g*h^2*k*m + 9*a^3*b^3*c^2*e*g \\
&*j^2*k*1 - 9*a^3*b^3*c^2*e*g*h^2*1*m - 9*a^3*b^3*c^2*e*f*j^2*k*m + 9*a^3*b^ \\
&3*c^2*d*h*j^2*k*1 - 9*a^3*b^3*c^2*d*f*j^2*1*m + 9*a^2*b^4*c^2*e^2*g*h*1*m + \\
&36*a^2*b^3*c^3*d^2*g*j*k*1 - 27*a^4*b^2*c^2*f*g*h*j*m^2 + 27*a^3*b^2*c^3*f \\
&^2*g*h*j*m - 18*a^4*b^2*c^2*e*f*h*1*m^2 - 18*a^3*b^3*c^2*d*g*j*k^2*1 - 18*a \\
&^3*b^2*c^3*d*g^2*j*k*1 + 18*a^2*b^3*c^3*d^2*f*j*k*m - 9*a^4*b^2*c^2*e*g*h*k \\
&*m^2 - 9*a^4*b^2*c^2*d*g*h*1*m^2 - 9*a^3*b^3*c^2*f*g*h*j^2*m + 9*a^3*b^3*c^ \\
&2*e*f*j*k^2*1 - 9*a^3*b^2*c^3*f^2*g*h*k*1 + 9*a^2*b^4*c^2*d*g^2*j*k*1 + 9*a \\
&^2*b^3*c^3*d^2*e*j*1*m + 36*a^3*b^2*c^3*e*f*g^2*1*m + 36*a^2*b^3*c^3*d^2*g* \\
&h*k*m - 18*a^3*b^3*c^2*d*g*h*k^2*m - 18*a^3*b^2*c^3*d*g^2*h*k*m + 9*a^3*b^3 \\
&*c^2*e*f*h*k^2*m + 9*a^3*b^3*c^2*d*f*j*k*1^2 - 9*a^3*b^2*c^3*f*g^2*h*j*1 - \\
&9*a^3*b^2*c^3*e*g^2*h*j*m - 9*a^2*b^4*c^2*e*f*g^2*1*m + 9*a^2*b^4*c^2*d*g^2 \\
&*h*k*m + 9*a^2*b^3*c^3*d^2*f*h*1*m + 9*a^2*b^3*c^3*d*e^2*j*k*m + 36*a^3*b^2 \\
&*c^3*d*f*h^2*k*m + 36*a^3*b^2*c^3*d*e*j^2*k*1 + 18*a^3*b^3*c^2*d*g*h*k*1^2 \\
&+ 18*a^3*b^2*c^3*e*g*h^2*j*1 + 18*a^3*b^2*c^3*e*f*h^2*k*1 - 18*a^3*b^2*c^3* \\
&e*f*h^2*j*m - 18*a^3*b^2*c^3*d*g*h^2*k*1 + 18*a^3*b^2*c^3*d*e*h^2*1*m + 18*
\end{aligned}$$

$$\begin{aligned}
& a^2b^3c^3e^2f^*h^*j^*m - 9a^3b^3c^2e^*g^*h^*j^*l^2 - 9a^3b^3c^2e^*f^*h^*k^*l^2 + 9a^3b^3c^2d^*f^*g^*l^2m - 9a^3b^3c^2d^*e^*h^*l^2m - 9a^3b^2c^3f^*g^*h^2j^*k - 9a^3b^2c^3d^*g^*h^2j^*m - 9a^2b^4c^2d^*f^*h^2k^*m - 9a^2b^4c^2d^*e^*j^2k^*l - 9a^2b^3c^3e^2g^*h^*j^*l - 9a^2b^3c^3e^2f^*h^*k^*l + 9a^2b^3c^3e^2f^*g^*k^*m - 9a^2b^3c^3d^*e^2h^*l^*m + 36a^3b^3c^2e^*f^*g^*j^*m^2 + 36a^3b^3c^2d^*f^*h^*j^*m^2 + 18a^3b^3c^2d^*f^*g^*k^*m^2 - 18a^3b^2c^3e^*f^*g^*j^2m - 18a^3b^2c^3d^*f^*h^*j^2m - 18a^2b^3c^3e^*f^2g^*j^*m - 18a^2b^3c^3d^*f^2h^*j^*m + 9a^3b^3c^2d^*e^*h^*k^*m^2 + 9a^3b^3c^2d^*e^*g^*l^*m^2 - 9a^3b^2c^3e^*g^*h^*j^2k - 9a^3b^2c^3d^*g^*h^*j^2l + 9a^2b^4c^2e^*f^*g^*j^2m + 9a^2b^4c^2d^*f^*h^*j^2m + 9a^2b^3c^3e^*f^2g^*k^*l + 9a^2b^3c^3d^*f^2h^*k^*l + 72a^2b^2c^4d^2f^*g^*j^*m + 36a^2b^2c^4d^2e^*f^*l^*m + 27a^3b^2c^3d^*g^*h^*j^*k^2 + 27a^3b^2c^3d^*f^*g^*k^2l + 27a^3b^2c^3d^*e^*g^*k^2m - 27a^2b^2c^4d^2g^*h^*j^*k - 27a^2b^2c^4d^2f^*g^*k^*l - 27a^2b^2c^4d^2e^*g^*k^*m + 18a^2b^3c^3d^*f^*g^2j^*m - 18a^2b^2c^4d^2e^*h^*k^*l - 9a^3b^2c^3e^*f^*h^*j^*k^2 + 9a^2b^3c^3e^*f^*g^2j^*l - 9a^2b^3c^3d^*g^2h^*j^*k - 9a^2b^3c^3d^*f^*g^2k^*l - 9a^2b^3c^3d^*e^*g^2k^*m - 9a^2b^2c^4d^2f^*h^*j^*l - 9a^2b^2c^4d^2e^*h^*j^*m + 36a^2b^2c^4d^2e^2f^*k^*m - 27a^3b^2c^3d^*e^*h^*j^*l^2 + 27a^2b^2c^4d^2e^2h^*j^*l - 18a^3b^2c^3d^*e^*g^*k^*l^2 - 9a^3b^2c^3d^*f^*g^*j^*l^2 + 9a^2b^4c^2d^*e^*h^*j^*l^2 + 9a^2b^3c^3e^*f^*g^2h^*m + 9a^2b^3c^3d^*f^*h^2j^*k - 9a^2b^3c^3d^*e^*h^2j^*l - 9a^2b^2c^4e^2f^*g^*j^*k - 9a^2b^2c^4d^2e^2g^*j^*m + 63a^3b^2c^3d^*e^*f^*j^*m^2 - 63a^2b^2c^4d^2e^*f^2j^*m - 45a^2b^4c^2d^*e^*f^*j^*m^2 + 36a^2b^2c^4d^2e^*f^2k^*l - 27a^3b^2c^3e^*f^*g^*h^*l^2 + 27a^2b^3c^3d^*e^*f^*j^2m + 27a^2b^2c^4e^2f^*g^*h^*l + 9a^2b^4c^2e^*f^*g^*h^*l^2 - 9a^2b^3c^3e^*f^*g^*h^2l + 9a^2b^3c^3d^*f^*g^*h^2m + 9a^2b^3c^3d^*e^*h^*j^2k + 9a^2b^3c^3d^*e^*g^*j^2l + 18a^2b^2c^4d^2e^*g^2j^*k - 9a^3b^2c^3d^*e^*g^*h^*m^2 - 9a^2b^3c^3d^*e^*g^*j^*k^2 - 9a^2b^2c^4e^*f^2g^*h^*k - 9a^2b^2c^4d^2f^2g^*h^*l + 18a^2b^2c^4d^2f^*g^2h^*k - 18a^2b^2c^4d^2e^*g^2h^*l - 9a^2b^3c^3d^*f^*g^*h^*k^2 - 9a^2b^2c^4e^*f^*g^2h^*j + 36a^2b^3c^3d^*e^*f^*h^*l^2 - 18a^2b^2c^4d^2e^*f^*h^2l - 9a^2b^2c^4d^2d^*f^*g^*h^2j - 9a^2b^2c^4d^2e^*g^*h^*j^2 - 27a^2b^2c^4d^2e^*f^*g^*k^2 + 18a^2b^2c^4d^2f^*h^*k^2 - 9a^2b^3c^3e^*f^*g^2k^2 - 9a^2b^2c^4e^2f^*h^*j^2 - 9a^2b^2c^4d^2f^2h^2k + 45a^2b^3c^3d^*e^*f^2m^2 + 36a^2b^2c^4d^2e^*g^*l^2 + 9a^2b^3c^3d^*e^*g^2l^2 + 9a^2b^2c^4e^*f^2g^*j^2 + 9a^2b^2c^4d^2f^2h^*j^2 - 9a^2b^2c^4d^2e^2h^*k^2 - 36a^2b^2c^4d^2e^2f^*l^2 - 9a^2b^2c^4d^2f^*g^2j^2 - 12a^6b^*c^*h^*k^*l^3m + 3a^*b^6c^*e^3k^*l^*m + 3a^*b^6c^*d^*e^*f^*l^3 - 12a^*b^*c^6d^*e^3f^*h + 9a^5b^2c^*h^2k^*l^2m + 18a^5b^*c^2g^2k^2l^*m - 9a^5b^2c^*h^2j^*l^*m^2 + 9a^5b^*c^2h^2j^2l^*m - 9a^4b^3c^*g^2k^2l^*m - 3a^4b^2c^2g^3k^*l^*m + 18a^5b^*c^2f^2k^*l^*m^2 + 15a^3b^3c^2f^3k^*l^*m + 9a^5b^2c^*h^*j^2k^*m^2 + 9a^5b^2c^*g^*j^2l^*m^2 - 9a^5b^2c^*f^*k^2l^2m + 9a^5b^*c^2h^2j^*k^2m + 9a^5b^*c^2g^2j^*l^2m - 9a^4b^3c^*f^2k^*l^*m^2 + 36a^3b^2c^3e^3k^*l^*m - 27a^5b^*c^2g^2j^*k^*m^2 - 18a^5b^*c^2h^2j^*k^*l^2 - 18a^2b^4c^2e^3k^*l^*m - 9a^5b^2c^*g^*j^*k^2m^2 - 9a^5b^2c^*e^*k^2l^*m^2 + 9a^5b^*c^2h^*j^2k^2l + 9a^5b^*c^2g^*j^2k^2m + 9a^4b^3c^*g^2j^*k^*m^2 + 9a^3b^4c^*
\end{aligned}$$

$$\begin{aligned}
& e^{2*k*1^2*m} + 3*a^4*b^2*c^2*h^3*j*k*1 - 54*a^4*b*c^3*d^2*k^2*1*m - 51*a^2*b \\
& ^3*c^3*d^3*k*1*m - 27*a^4*b*c^3*e^2*j^2*1*m - 18*a^5*b*c^2*g*h^2*1^2*m - 9* \\
& a^5*b^2*c*e*j*1^2*m^2 - 9*a^5*b^2*c*d*k*1^2*m^2 + 9*a^5*b*c^2*g^2*h*1*m^2 + \\
& 9*a^5*b*c^2*g*j^2*k*1^2 + 9*a^5*b*c^2*e*j^2*1^2*m - 9*a^3*b^4*c*e^2*j*1*m^ \\
& 2 - 9*a^2*b^5*c*d^2*k^2*1*m + 3*a^4*b^2*c^2*g*h^3*1*m - 3*a^3*b^3*c^2*g^3*j \\
& *k*1 + 18*a^5*b*c^2*e*j^2*k*m^2 + 18*a^5*b*c^2*d*j^2*1*m^2 + 18*a^4*b*c^3*f \\
& ^2*j^2*k*1 + 9*a^5*b*c^2*g*h^2*k*m^2 + 9*a^5*b*c^2*f*h^2*1*m^2 + 9*a^5*b*c^ \\
& 2*f*j*k^2*1^2 - 9*a^4*b^3*c*e*j^2*k*m^2 - 9*a^4*b^3*c*d*j^2*1*m^2 + 9*a^4*b \\
& ^2*c^2*f*j^3*k*1 + 9*a^4*b^2*c^2*e*j^3*k*m + 9*a^4*b^2*c^2*d*j^3*1*m + 9*a^ \\
& 4*b*c^3*f^2*h^2*1*m + 9*a^4*b*c^3*e^2*j*k^2*m + 9*a^4*b*c^3*d^2*j*1^2*m - 3 \\
& *a^3*b^3*c^2*g^3*h*k*m - 3*a^3*b^2*c^3*f^3*j*k*1 + 3*a^2*b^4*c^2*f^3*j*k*1 \\
& + 45*a^4*b*c^3*d^2*j*k*m^2 - 27*a^5*b*c^2*d*j*k^2*m^2 + 18*a^5*b*c^2*g*h*j^ \\
& 2*m^2 + 18*a^4*b*c^3*e^2*j*k*1^2 + 15*a^2*b^3*c^3*e^3*j*k*1 - 12*a^3*b^2*c^ \\
& 3*f^3*h*k*m - 12*a^3*b^2*c^3*f^3*g*1*m + 9*a^5*b*c^2*g*h*k^2*1^2 - 9*a^4*b^ \\
& 3*c*g*h*j^2*m^2 + 9*a^4*b^3*c*d*j*k^2*m^2 + 9*a^4*b^2*c^2*g*h*j^3*m + 9*a^4 \\
& *b*c^3*g^2*h^2*k*1 + 9*a^4*b*c^3*g^2*h^2*j*m + 9*a^2*b^5*c*d^2*j*k*m^2 + 3* \\
& a^2*b^4*c^2*f^3*h*k*m + 3*a^2*b^4*c^2*f^3*g*1*m + 36*a^2*b^2*c^4*d^3*j*k*1 \\
& + 18*a^4*b*c^3*e^2*g*1^2*m + 15*a^2*b^3*c^3*e^3*g*1*m + 12*a^4*b^2*c^2*d*j* \\
& k^3*1 + 9*a^5*b*c^2*f*g*k^2*m^2 + 9*a^5*b*c^2*e*h*k^2*m^2 + 9*a^4*b*c^3*g^2 \\
& *h*j^2*1 + 9*a^4*b*c^3*f^2*h*k^2*1 + 9*a^4*b*c^3*f^2*g*k^2*m + 9*a^4*b*c^3* \\
& d^2*h*1*m^2 - 9*a^3*b^3*c^2*e*h^3*k*m + 6*a^2*b^3*c^3*e^3*h*k*m + 45*a^4*b* \\
& c^3*e^2*h*j*m^2 + 36*a^2*b^2*c^4*d^3*h*k*m - 33*a^3*b^2*c^3*d*g^3*1*m - 27* \\
& a^4*b*c^3*f^2*h*j*1^2 - 27*a^4*b*c^3*e^2*f*1*m^2 - 27*a^4*b*c^3*e*h^2*j^2*m \\
& - 18*a^4*b*c^3*g^2*h*j*k^2 - 18*a^4*b*c^3*f*g^2*k^2*1 - 18*a^4*b*c^3*e*g^2 \\
& *k^2*m - 18*a^3*b*c^4*d^2*g^2*1*m + 12*a^4*b^2*c^2*d*h*k^3*m + 9*a^5*b*c^2* \\
& e*f*1^2*m^2 + 9*a^5*b*c^2*d*g*1^2*m^2 + 9*a^4*b*c^3*f^2*g*k*1^2 + 9*a^4*b*c \\
& ^3*e^2*g*k*m^2 + 9*a^4*b*c^3*g*h^2*j^2*k + 9*a^4*b*c^3*f*h^2*j^2*1 + 9*a^4* \\
& b*c^3*e*f^2*1^2*m - 9*a^3*b^4*c*e*h^2*j*m^2 + 9*a^3*b*c^4*e^2*f^2*1*m + 9*a \\
& ^2*b^5*c*e^2*h*j*m^2 + 9*a^2*b^4*c^2*d*g^3*1*m - 9*a^2*b^2*c^4*d^3*g*1*m - \\
& 9*a*b^5*c^2*d^2*g^2*1*m - 6*a^4*b^2*c^2*e*h*k^3*1 - 6*a^3*b^2*c^3*f*g^3*j*m \\
& + 3*a^4*b^2*c^2*g*h*j*k^3 + 3*a^4*b^2*c^2*f*g*k^3*1 + 3*a^4*b^2*c^2*e*g*k^ \\
& 3*m + 3*a^3*b^2*c^3*g^3*h*j*k + 3*a^3*b^2*c^3*f*g^3*k*1 + 3*a^3*b^2*c^3*e*g \\
& ^3*k*m - 27*a^3*b*c^4*d^2*h^2*k*1 + 18*a^4*b*c^3*e*f^2*k*m^2 + 18*a^4*b*c^3 \\
& *d*f^2*1*m^2 + 9*a^4*b*c^3*f*h^2*j*k^2 + 9*a^4*b*c^3*f*g^2*j*1^2 + 9*a^4*b* \\
& c^3*e*g^2*k*1^2 + 9*a^4*b*c^3*d*h^2*k^2*1 + 9*a^3*b^4*c*e*g*j^2*m^2 + 9*a^3 \\
& *b^4*c*d*h*j^2*m^2 - 9*a^3*b^3*c^2*e*g*j^3*m - 9*a^3*b^3*c^2*d*h*j^3*m + 9* \\
& a^3*b*c^4*e^2*g^2*k*1 + 9*a^3*b*c^4*e^2*g^2*j*m + 9*a^3*b*c^4*d^2*h^2*j*m - \\
& 3*a^2*b^3*c^3*f^3*h*j*k - 3*a^2*b^3*c^3*f^3*g*j*1 - 3*a^2*b^3*c^3*e*f^3*k* \\
& m - 3*a^2*b^3*c^3*d*f^3*1*m + 45*a^4*b*c^3*d*g^2*j*m^2 + 45*a^3*b*c^4*d^2*g \\
& *j^2*m + 24*a^4*b^2*c^2*d*g*k*1^3 + 24*a^2*b^2*c^4*e^3*f*j*m + 18*a^4*b*c^3 \\
& *f^2*g*h*m^2 + 18*a^4*b*c^3*d*h^2*j*1^2 + 18*a^3*b*c^4*e^2*h^2*j*k - 12*a^4 \\
& *b^2*c^2*e*g*j*1^3 - 12*a^4*b^2*c^2*e*f*k*1^3 - 12*a^4*b^2*c^2*d*e*1^3*m - \\
& 12*a^2*b^2*c^4*e^3*g*j*1 - 12*a^2*b^2*c^4*e^3*f*k*1 - 12*a^2*b^2*c^4*d*e^3* \\
& 1*m + 9*a^4*b*c^3*f*g*j^2*k^2 + 9*a^4*b*c^3*e*h*j^2*k^2 + 9*a^3*b^2*c^3*e*h \\
& ^3*j*k + 9*a^3*b^2*c^3*d*h^3*j*1 + 9*a^3*b*c^4*f^2*g^2*j*k + 9*a^3*b*c^4*d^
\end{aligned}$$

$$\begin{aligned}
& 2*h*j^2*m + 9*a^2*b^5*c*d*g^2*j*m^2 + 9*a*b^5*c^2*d^2*g*j^2*m - 3*a^4*b^2*c^2*d*h*j^1^3 - 3*a^2*b^3*c^3*f^3*g*h*m - 3*a^2*b^2*c^4*e^3*h*j*k + 18*a^4*b^2*c^3*f*g*h^2*m^1^2 + 18*a^3*b*c^4*e^2*g*h^2*m + 18*a^3*b*c^4*d^2*h*j*k^2 + 18*a^3*b*c^4*d^2*f*k^2*m + 18*a^3*b*c^4*d^2*e*k^2*m + 9*a^4*b*c^3*e*g^2*h*m^2 + 9*a^4*b*c^3*e*f*j^2*m^1^2 + 9*a^4*b*c^3*d*g*j^2*m^1^2 + 9*a^3*b^2*c^3*f*g*h^3*m + 9*a^3*b^2*c^3*e*g*h^3*m + 9*a^3*b*c^4*f^2*g^2*h*m + 9*a^3*b*c^4*e^2*g*j^2*k + 9*a^3*b*c^4*e^2*f*j^2*m - 9*a^2*b^3*c^3*d*g^3*j*m + 9*a*b^4*c^3*d^2*g^2*j*m - 3*a^4*b^2*c^2*f*g*h^1^3 - 3*a^3*b^3*c^2*e*g*j*k^3 - 3*a^3*b^3*c^2*d*h*j*k^3 - 3*a^3*b^3*c^2*d*f*k^3*m - 3*a^2*b^2*c^4*e^3*g*h*m - 33*a^3*b^2*c^3*d*e*j^3*m - 27*a^4*b*c^3*e*f*h^2*m^2 - 27*a^3*b*c^4*d^2*e*k^1^2 - 18*a^4*b*c^3*d*e*j^2*m^2 - 18*a^3*b*c^4*e*f^2*j^2*k - 18*a^3*b*c^4*d*f^2*j^2*m - 9*a^4*b^2*c^2*d*e*j*m^3 + 9*a^4*b*c^3*d*g*h^2*m^2 + 9*a^4*b*c^3*d*e*k^2*m^1^2 + 9*a^3*b*c^4*f^2*g*h^2*k + 9*a^3*b*c^4*e^2*f*j*k^2 + 9*a^3*b*c^4*d^2*f*j^1^2 + 9*a^3*b*c^4*e*f^2*h^2*m + 9*a^3*b*c^4*d*e^2*k^2*m - 9*a^2*b^5*c*d*e*j^2*m^2 + 9*a^2*b^4*c^2*d*e*j^3*m - 9*a^2*b^3*c^3*d*g^3*h*m + 9*a^2*b*c^5*d^2*e^2*k^1 + 9*a^2*b*c^5*d^2*e^2*j*m + 9*a*b^4*c^3*d^2*g^2*h*m - 6*a^3*b^2*c^3*d*g*j^3*k - 3*a^3*b^3*c^2*f*g*h*k^3 + 3*a^3*b^2*c^3*e*f*j^3*k + 3*a^3*b^2*c^3*d*f*j^3*m + 3*a^2*b^2*c^4*e*f^3*j*k + 3*a^2*b^2*c^4*d*f^3*j*m + 45*a^3*b*c^4*d^2*g*h^1^2 + 36*a^4*b^2*c^2*e*f*g*m^3 + 36*a^4*b^2*c^2*d*f*h*m^3 - 27*a^3*b*c^4*e^2*g*h*k^2 - 27*a^3*b*c^4*d*g^2*h^2*m - 18*a^3*b*c^4*f^2*g*h*j^2 + 18*a^3*b*c^4*d*e^2*j^1^2 + 15*a^3*b^3*c^2*d*e*j^1^3 + 12*a^2*b^2*c^4*e*f^3*g*m + 12*a^2*b^2*c^4*d*f^3*h*m + 9*a^3*b*c^4*f*g^2*h^2*j + 9*a^3*b*c^4*e*g^2*h^2*k + 9*a^3*b*c^4*d*f^2*j*k^2 + 9*a^2*b*c^5*d^2*f^2*j*k + 9*a*b^5*c^2*d^2*g*h^1^2 - 9*a*b^4*c^3*d^2*g*h^2*m - 6*a^2*b^2*c^4*e*f^3*h^1 + 3*a^3*b^2*c^3*f*g*h*j^3 + 3*a^2*b^2*c^4*f^3*g*h*j + 45*a^3*b*c^4*d^2*f*g*m^2 - 27*a^2*b*c^5*d^2*f^2*g*m + 18*a^3*b*c^4*e^2*f*g^1^2 + 15*a^3*b^3*c^2*e*f*g^1^3 - 12*a^3*b^2*c^3*d*e*j*k^3 + 9*a^3*b*c^4*d^2*e*h^1^2 + 9*a^3*b*c^4*e*g^2*h*j^2 + 9*a^3*b*c^4*e*f^2*h*k^2 - 9*a^2*b^3*c^3*d*f*h^3*m + 9*a^2*b*c^5*d^2*f^2*h^1 + 9*a*b^5*c^2*d^2*f*g*m^2 + 9*a*b^3*c^4*d^2*f^2*g*m + 6*a^3*b^3*c^2*d*f*h^1^3 + 3*a^2*b^4*c^2*d*e*j*k^3 + 18*a^3*b*c^4*e*f*g^2*k^2 + 18*a^2*b*c^5*d^2*g^2*h*j + 18*a^2*b*c^5*d^2*f*g^2*m + 18*a^2*b*c^5*d^2*e*g^2*m - 12*a^3*b^2*c^3*d*f*h*k^3 + 9*a^3*b*c^4*e*f*h^2*j^2 + 9*a^3*b*c^4*d*f^2*g^1^2 + 9*a^3*b*c^4*d*e^2*g*m^2 + 9*a^3*b*c^4*d*g*h^2*j^2 + 9*a^2*b^2*c^4*e*f*g^3*k + 9*a^2*b^2*c^4*d*g^3*h*j + 9*a^2*b^2*c^4*d*f*g^3*m + 9*a^2*b^2*c^4*d*e*g^3*m + 9*a^2*b*c^5*e^2*f^2*h*j + 9*a^2*b*c^5*e^2*f^2*g*k - 9*a*b^3*c^4*d^2*g^2*h*j - 9*a*b^3*c^4*d^2*f*g^2*m - 9*a*b^3*c^4*d^2*e*g^2*m - 3*a^3*b^2*c^3*e*f*g*k^3 + 3*a^2*b^4*c^2*e*f*g*k^3 + 3*a^2*b^4*c^2*d*f*h*k^3 - 54*a^3*b*c^4*d*e*f^2*m^2 - 51*a^3*b^3*c^2*d*e*f*m^3 - 27*a^3*b*c^4*d*e*g^2*m^1^2 + 9*a^3*b*c^4*d*e*h^2*k^2 + 9*a^2*b*c^5*e^2*f*g^2*j + 9*a^2*b*c^5*d^2*f*h^2*j + 9*a^2*b*c^5*d^2*e*h^2*k + 9*a^2*b*c^5*d*e^2*g^2*m - 9*a*b^5*c^2*d*e*f^2*m^2 - 9*a*b^4*c^3*d^2*e*g^1^2 - 9*a*b^2*c^5*d^2*e^2*g^1 - 9*a*b^2*c^5*d^2*e^2*f*m - 3*a^2*b^3*c^3*e*f*g*j^3 - 3*a^2*b^3*c^3*d*f*h*j^3 + 36*a^3*b^2*c^3*d*e*f^1^3 - 27*a^2*b*c^5*d^2*f*g*j^2 - 18*a^2*b^4*c^2*d*e*f^1^3 - 18*a^2*b*c^5*d^2*e*h^2*j + 9*a^2*b*c^5*d^2*e*h^2*j + 9*a^2*b*c^5*d*f^2*g^2*j + 9*a*b^4*c^3*d*e^2*f^1^2 + 9*a*b^3*c^4*d^2*f*g*j^2
\end{aligned}$$

$$\begin{aligned}
& - 9a^2b^2c^5d^2f^2g^2j - 9a^2b^2c^5d^2ef^2k^2 + 3a^2b^2c^4d^2ef^2h^3j - 18a^2b^2c^5e^2f^2g^2h^2 + 18a^2b^2c^5d^2ef^2k^2 + 15a^2b^3c^3d^2ef^2k^3 + 9a^2b^2c^5ef^2g^2h^2 + 9a^2b^2c^5d^2ef^2g^2j^2 - 9a^2b^3c^4d^2ef^2k^2 + 9a^2b^2c^5d^2ef^2g^2j^2 - 9a^2b^2c^5d^2ef^2k^2 + 3a^2b^2c^4d^2ef^2g^2h^3 + 18a^2b^2c^5d^2ef^2j^2 + 9a^2b^2c^5d^2ef^2g^2h^2 - 9a^2b^3c^4d^2ef^2j^2 + 9a^2b^2c^5d^2ef^2g^2h^2 - 3a^2b^2c^4d^2ef^2j^3 + 9a^2b^2c^5d^2ef^2g^2h^2 - 9a^2b^2c^5d^2ef^2g^2h^2 + 9a^2b^2c^5d^2ef^2h^2 - 36a^6c^2f^2j^2k^2l^2m^2 + 36a^5c^3f^2j^2k^2l^2m - 36a^5c^3f^2h^2j^2l^2m + 36a^5c^3e^2h^2j^2l^2m - 18a^6b^2c^2j^2k^2l^2m^2 + 9a^6b^2c^2j^2k^2l^2m + 3a^5b^2c^2j^2k^2l^2m - 36a^5c^3f^2g^2j^2k^2l^2m - 36a^5c^3ef^2k^2l^2m + 36a^5c^3d^2g^2k^2l^2m - 36a^4c^4d^2g^2k^2l^2m - 36a^5c^3ef^2h^2j^2k^2l^2 - 36a^5c^3ef^2j^2l^2m - 36a^5c^3d^2f^2k^2l^2m + 36a^4c^4e^2h^2j^2k^2l + 36a^4c^4e^2f^2j^2l^2m + 9a^6b^2c^2h^2k^2l^2m^2 - 3a^4b^3c^2h^3k^2l^2m - 36a^5c^3ef^2g^2h^2l^2m + 36a^5c^3ef^2j^2k^2m^2 - 36a^5c^3d^2g^2j^2k^2m^2 + 36a^5c^3d^2f^2j^2l^2m^2 - 36a^5c^3d^2ef^2k^2l^2m^2 + 36a^4c^4e^2g^2h^2l^2m - 36a^4c^4ef^2j^2k^2m - 36a^4c^4d^2f^2j^2l^2m + 9a^6b^2c^2h^2j^2l^2m^2 + 9a^6b^2c^2g^2k^2l^2m^2 + 9a^5b^2c^2g^2k^3l^2m + 3a^3b^4c^2g^3k^2l^2m + 36a^5c^3f^2g^2h^2j^2m^2 + 36a^5c^3ef^2h^2l^2m^2 - 36a^4c^4f^2g^2h^2j^2m - 36a^4c^4ef^2h^2l^2m - 24a^4b^2c^3f^3k^2l^2m - 12a^5b^2c^2h^2j^3k^2m - 12a^5b^2c^2g^2j^3l^2m - 3a^2b^5c^2f^3k^2l^2m - 36a^4c^4ef^2g^2h^2k^2l - 36a^4c^4ef^2g^2l^2m + 12a^5b^2c^2ef^2j^2l^3m + 3a^5b^2c^2ef^2j^2l^3m + 3a^5b^2c^2ef^2j^2k^3m + 48a^3b^2c^4d^3k^2l^2m + 36a^4c^4ef^2h^2j^2m + 36a^4c^4d^2g^2h^2k^2l - 36a^4c^4d^2f^2h^2k^2m - 36a^4c^4d^2ef^2j^2k^2l + 24a^5b^2c^2d^2k^3l^2m + 21a^2b^5c^2d^3k^2l^2m - 12a^5b^2c^2g^2j^2k^3l - 9a^4b^3c^2d^2k^3l^2m + 6a^5b^2c^2f^2j^2k^3m + 3a^5b^2c^2g^2h^2l^3m - 36a^4c^4ef^2h^2j^2l - 12a^5b^2c^2g^2h^2k^3m - 3a^5b^2c^2ef^2j^2k^3m - 3a^5b^2c^2d^2j^2l^3m - 36a^4c^4d^2g^2h^2j^2k^2 - 36a^4c^4d^2f^2g^2k^2l - 36a^4c^4d^2ef^2h^2k^2l - 36a^4c^4d^2ef^2g^2k^2m + 36a^3c^5d^2g^2h^2j^2k + 36a^3c^5d^2ef^2g^2k^2l - 36a^3c^5d^2ef^2g^2j^2m + 36a^3c^5d^2ef^2h^2k^2l + 36a^3c^5d^2ef^2g^2k^2m - 36a^3c^5d^2ef^2l^2m + 24a^5b^2c^2ef^2h^2l^2m^3 - 24a^3b^2c^4ef^3j^2k^2l - 12a^5b^2c^2ef^2h^2k^2m^3 - 12a^5b^2c^2ef^2g^2l^2m^3 - 3a^5b^2c^2g^2h^2j^2m^3 - 3a^4b^3c^2ef^2j^2k^2l + 36a^4c^4d^2ef^2h^2j^2l^2 + 36a^4c^4d^2ef^2g^2k^2l^2 - 36a^3c^5d^2ef^2h^2j^2l - 36a^3c^5d^2ef^2g^2k^2l - 36a^3c^5d^2ef^2f^2k^2m + 24a^4b^2c^3ef^3k^2m - 24a^3b^2c^4ef^3g^2l^2m - 18a^2b^4c^3d^3j^2k^2l - 12a^4b^2c^3g^2h^3j^2l - 12a^4b^2c^3f^2h^3k^2l - 12a^4b^2c^3d^2h^3l^2m + 12a^3b^2c^4ef^3h^2k^2m + 6a^4b^2c^3f^2h^3j^2m - 3a^4b^3c^2g^2h^2j^2l^3 - 3a^4b^3c^2f^2h^2k^2l^3 - 3a^4b^3c^2ef^2g^2l^3m - 3a^4b^3c^2d^2h^2l^3m - 3a^2b^5c^2ef^3h^2k^2m - 3a^2b^5c^2ef^3g^2l^2m + 36a^4c^4ef^2g^2h^2l^2 - 36a^4c^4d^2ef^2j^2m^2 - 36a^3c^5e^2f^2g^2h^2l - 36a^3c^5d^2f^2g^2j^2k - 36a^3c^5d^2ef^2k^2l + 36a^3c^5d^2ef^2j^2m - 18a^2b^4c^3d^3h^2k^2m - 9a^2b^4c^3d^3g^2l^2m + 30a^5b^2c^2d^2g^2k^2m^3 - 30a^4b^3c^2d^2g^2k^2m^3 - 24a^5b^2c^2ef^2k^2m^3 - 24a^5b^2c^2d^2f^2l^2m^3 + 24a^4b^2c^3ef^2g^2j^2m^3 + 24a^4b^2c^3d^2h^2j^2m^3 + 15a^4b^3c^2ef^2k^2m^3 + 15a^4b^3c^2d^2f^2l^2m^3 + 12a^5b^2c^2ef^2g^2j^2m^3 + 12a^5b^2c^2d^2h^2j^2m^3 - 12a^4b^2c^3f^2h^2j^2k - 12a^4b^2c^3f^2g^2j^2l + 6a^4b^3c^2ef^2g^2j^2m^3 + 6
\end{aligned}$$

$$\begin{aligned}
& *a^4*b^3*c*d*h*j*m^3 + 6*a^4*b*c^3*e*h*j^3*1 + 36*a^3*c^5*d*e*g^2*h*1 - 24* \\
& a^5*b*c^2*f*g*h*m^3 + 15*a^4*b^3*c*f*g*h*m^3 - 9*a*b^6*c*d^2*g*j*m^2 - 6*a^ \\
& 3*b^4*c*d*g*k*1^3 - 6*a*b^4*c^3*e^3*f*j*m + 3*a^3*b^4*c*e*g*j*1^3 + 3*a^3*b \\
& ^4*c*e*f*k*1^3 + 3*a^3*b^4*c*d*h*j*1^3 + 3*a^3*b^4*c*d*e*1^3*m + 3*a*b^4*c^ \\
& 3*e^3*h*j*k + 3*a*b^4*c^3*e^3*g*j*1 + 3*a*b^4*c^3*e^3*f*k*1 + 3*a*b^4*c^3*d \\
& *e^3*1*m - 36*a^3*c^5*d*e*g*h^2*k + 30*a^2*b*c^5*d^3*f*j*m - 30*a*b^3*c^4*d \\
& ^3*f*j*m + 24*a^3*b*c^4*d*g^3*j*1 - 24*a^2*b*c^5*d^3*h*j*k - 24*a^2*b*c^5*d \\
& ^3*f*k*1 - 24*a^2*b*c^5*d^3*e*k*m + 15*a*b^3*c^4*d^3*h*j*k + 15*a*b^3*c^4*d \\
& ^3*f*k*1 + 15*a*b^3*c^4*d^3*e*k*m - 12*a^3*b*c^4*e*g^3*j*k + 12*a^2*b*c^5*d \\
& ^3*g*j*1 + 6*a*b^3*c^4*d^3*g*j*1 + 3*a^3*b^4*c*f*g*h*1^3 + 3*a*b^4*c^3*e^3* \\
& g*h*m + 24*a^3*b*c^4*d*g^3*h*m - 12*a^3*b*c^4*f*g^3*h*k + 12*a^2*b*c^5*d^3* \\
& g*h*m - 9*a^3*b^4*c*d*e*j*m^3 + 6*a^3*b*c^4*e*g^3*h*1 + 6*a*b^3*c^4*d^3*g*h \\
& *m + 36*a^3*c^5*d*e*f*g*k^2 - 36*a^2*c^6*d^2*e*f*g*k - 24*a^4*b*c^3*d*e*j*1 \\
& ^3 - 18*a^3*b^4*c*e*f*g*m^3 - 18*a^3*b^4*c*d*f*h*m^3 - 3*a^2*b^5*c*d*e*j*1^ \\
& 3 - 3*a*b^3*c^4*d*e^3*j*1 - 24*a^4*b*c^3*e*f*g*1^3 + 24*a^3*b*c^4*d*f*h^3*1 \\
& + 12*a^4*b*c^3*d*f*h*1^3 - 12*a^3*b*c^4*e*g*h^3*j - 12*a^3*b*c^4*e*f*h^3*k \\
& - 12*a^3*b*c^4*d*e*h^3*m - 12*a*b^2*c^5*d^3*e*j*k + 6*a^3*b*c^4*d*g*h^3*k \\
& - 3*a^2*b^5*c*e*f*g*1^3 - 3*a^2*b^5*c*d*f*h*1^3 - 3*a*b^3*c^4*e^3*g*h*j - 3 \\
& *a*b^3*c^4*e^3*f*h*k - 3*a*b^3*c^4*e^3*f*g*1 - 3*a*b^3*c^4*d*e^3*h*m + 24*a \\
& *b^2*c^5*d^3*e*h*1 - 12*a*b^2*c^5*d^3*f*h*k - 3*a*b^2*c^5*d^3*g*h*j - 3*a*b \\
& ^2*c^5*d^3*f*g*1 - 3*a*b^2*c^5*d^3*e*g*m + 48*a^4*b*c^3*d*e*f*m^3 + 24*a^2* \\
& b*c^5*d*e*f^3*m + 21*a^2*b^5*c*d*e*f*m^3 - 12*a^2*b*c^5*e*f^3*g*j - 12*a^2* \\
& b*c^5*d*f^3*h*j - 9*a*b^3*c^4*d*e*f^3*m + 6*a^2*b*c^5*d*f^3*g*k + 12*a*b^2* \\
& c^5*d*e^3*f*1 - 6*a*b^2*c^5*d*e^3*g*k + 3*a*b^2*c^5*d*e^3*h*j - 24*a^3*b*c^ \\
& 4*d*e*f*k^3 - 12*a^2*b*c^5*d*e*g^3*j - 3*a*b^5*c^2*d*e*f*k^3 + 3*a*b^2*c^5* \\
& e^3*f*g*h - 12*a^2*b*c^5*d*f*g^3*h + 9*a*b^2*c^5*d*e*f^3*j + 9*a*b*c^6*d^2* \\
& e^2*f*j + 3*a*b^4*c^3*d*e*f*j^3 + 9*a*b*c^6*d^2*e^2*g*h + 9*a*b*c^6*d^2*e*f \\
& ^2*h - 3*a*b^3*c^4*d*e*f*h^3 - 18*a*b*c^6*d^2*e*f*g^2 + 9*a*b*c^6*d^2*e*f^2 \\
& *g + 3*a*b^2*c^5*d*e*f*g^3 - 36*a^4*b^2*c^2*e^2*k*1^2*m - 9*a^4*b^2*c^2*g^2 \\
& *j^2*k*m + 45*a^3*b^3*c^2*d^2*k^2*1*m + 36*a^4*b^2*c^2*e^2*j*1*m^2 + 9*a^4* \\
& b^2*c^2*g^2*j*k^2*1 + 9*a^3*b^3*c^2*e^2*j^2*1*m + 9*a^4*b^2*c^2*g^2*h*k^2*m \\
& - 9*a^4*b^2*c^2*f^2*h*1^2*m - 9*a^3*b^3*c^2*f^2*j^2*k*1 - 45*a^3*b^3*c^2*d \\
& ^2*j*k*m^2 + 36*a^3*b^2*c^3*d^2*j^2*k*m + 18*a^4*b^2*c^2*f^2*h*k*m^2 + 18*a \\
& ^4*b^2*c^2*f^2*g*1*m^2 - 9*a^4*b^2*c^2*g^2*h*k*1^2 - 9*a^4*b^2*c^2*f*h^2*k^ \\
& 2*m - 9*a^4*b^2*c^2*f*g^2*1^2*m - 9*a^4*b^2*c^2*e*j^2*k^2*1 - 9*a^4*b^2*c^2 \\
& *d*j^2*k^2*m - 9*a^3*b^3*c^2*e^2*j*k*1^2 - 9*a^2*b^4*c^2*d^2*j^2*k*m - 36*a \\
& ^3*b^2*c^3*d^2*j*k^2*1 - 27*a^3*b^2*c^3*e^2*h^2*k*m + 9*a^4*b^2*c^2*g*h^2*j \\
& *1^2 + 9*a^4*b^2*c^2*f*h^2*k*1^2 - 9*a^4*b^2*c^2*f*g^2*k*m^2 - 9*a^4*b^2*c^ \\
& 2*e*g^2*1*m^2 - 9*a^4*b^2*c^2*d*j^2*k*1^2 + 9*a^4*b^2*c^2*d*h^2*1^2*m - 9*a \\
& ^3*b^3*c^2*e^2*g*1^2*m + 9*a^2*b^4*c^2*e^2*h^2*k*m + 9*a^2*b^4*c^2*d^2*j*k^ \\
& 2*1 - 45*a^3*b^3*c^2*e^2*h*j*m^2 + 36*a^4*b^2*c^2*e*h^2*j*m^2 + 36*a^3*b^2* \\
& c^3*e^2*h*j^2*m - 36*a^3*b^2*c^3*d^2*h*k^2*m + 36*a^2*b^3*c^3*d^2*g^2*1*m - \\
& 9*a^4*b^2*c^2*f*h*j^2*1^2 - 9*a^4*b^2*c^2*d*h^2*k*m^2 + 9*a^3*b^3*c^2*f^2* \\
& h*j*1^2 + 9*a^3*b^3*c^2*e^2*f*1*m^2 + 9*a^3*b^3*c^2*e*h^2*j^2*m - 9*a^3*b^2 \\
& *c^3*f^2*h^2*j*1 - 9*a^2*b^4*c^2*d^2*h*k^2*m + 9*a^2*b^4*c^2*d^2*h*k^2*m +
\end{aligned}$$

$$\begin{aligned}
& 36a^3b^2c^3d^2hk^2l^2 - 27a^4b^2c^2eg^2j^2m^2 - 27a^4b^2c^2d^2h^2j^2m^2 - 9a^4b^2c^2d^2hk^2l^2 - 9a^3b^3c^2ef^2k^2m^2 - 9a^3b^3c^2d^2f^2l^2m^2 + 9a^3b^2c^3f^2h^2j^2k + 9a^3b^2c^3f^2g^2j^2l \\
& - 9a^3b^2c^3e^2g^2k^2l - 9a^3b^2c^3e^2f^2k^2m - 9a^3b^2c^3d^2f^2l^2m - 9a^2b^4c^2d^2hk^2l^2 + 9a^2b^3c^3d^2h^2k^2l - 81a^3b^2c^3d^2g^2j^2m^2 + 54a^2b^4c^2d^2g^2j^2m^2 - 45a^3b^3c^2d^2g^2j^2m^2 \\
& - 45a^2b^3c^3d^2g^2j^2m + 36a^3b^2c^3d^2f^2k^2m^2 + 36a^3b^2c^3d^2g^2j^2m + 18a^3b^2c^3e^2g^2j^2l^2 + 18a^3b^2c^3e^2f^2k^2l^2 + 18a^3b^2c^3d^2e^2l^2m - 9a^4b^2c^2d^2f^2k^2m^2 - 9a^3b^3c^2f^2g^2h^2m^2 - 9a^3b^3c^2d^2h^2j^2l^2 - 9a^3b^2c^3f^2g^2j^2k^2 - 9a^3b^2c^3d^2e^2l^2m^2 - 9a^3b^2c^3f^2g^2h^2m - 9a^3b^2c^3e^2g^2j^2l - 9a^3b^2c^3e^2f^2k^2l - 9a^2b^4c^2d^2f^2k^2m^2 - 9a^2b^4c^2d^2g^2j^2m^2 - 9a^2b^3c^3e^2h^2j^2k - 9a^2b^2c^4d^2f^2k^2m - 27a^2b^2c^4d^2g^2j^2l - 9a^3b^3c^2f^2g^2h^2k^2l^2 + 9a^3b^2c^3e^2g^2j^2k^2 - 9a^3b^2c^3e^2f^2j^2l^2 - 9a^3b^2c^3d^2h^2j^2k - 9a^3b^2c^3d^2f^2k^2l^2 - 9a^3b^2c^3d^2e^2k^2m^2 - 9a^2b^3c^3e^2g^2h^2m - 9a^2b^3c^3d^2h^2j^2k^2 - 9a^2b^3c^3d^2f^2k^2l - 9a^2b^3c^3d^2e^2k^2m + 36a^3b^3c^2d^2e^2j^2m^2 + 36a^3b^2c^3e^2f^2h^2m^2 - 27a^2b^2c^4d^2g^2h^2m + 9a^3b^3c^2e^2f^2h^2m^2 + 9a^3b^2c^3f^2g^2h^2k^2 - 9a^2b^4c^2e^2f^2h^2m^2 + 9a^2b^3c^3d^2e^2k^2l^2 - 9a^2b^2c^4e^2f^2h^2m - 45a^2b^3c^3d^2g^2h^2l^2 - 36a^3b^2c^3e^2f^2g^2m^2 + 36a^3b^2c^3d^2g^2h^2l^2 - 36a^3b^2c^3d^2f^2h^2m^2 + 36a^2b^2c^4d^2g^2h^2l - 9a^3b^2c^3e^2g^2h^2k^2 + 9a^2b^4c^2e^2f^2g^2m^2 - 9a^2b^4c^2d^2g^2h^2l^2 + 9a^2b^4c^2d^2f^2h^2m^2 + 9a^2b^3c^3e^2g^2h^2k^2 + 9a^2b^3c^3d^2g^2h^2l - 9a^2b^3c^3d^2e^2j^2l^2 - 9a^2b^2c^4e^2g^2h^2k - 9a^2b^2c^4e^2f^2g^2m - 9a^2b^2c^4d^2f^2j^2k - 9a^2b^2c^4d^2f^2h^2m - 9a^2b^2c^4d^2e^2j^2l - 45a^2b^3c^3d^2f^2g^2m^2 + 36a^3b^2c^3d^2f^2g^2m^2 - 27a^3b^2c^3d^2f^2h^2l^2 + 18a^2b^2c^4d^2e^2j^2k^2 + 9a^2b^4c^2d^2f^2h^2l^2 - 9a^2b^4c^2d^2f^2g^2m^2 - 9a^2b^3c^3e^2f^2g^2l^2 + 9a^2b^2c^4e^2g^2h^2j + 9a^2b^2c^4e^2f^2h^2k - 9a^2b^2c^4e^2f^2g^2l - 9a^2b^2c^4d^2f^2g^2m - 9a^2b^2c^4d^2e^2j^2k + 9a^2b^2c^4d^2e^2h^2m + 18a^4b^2c^2f^2j^2m^2 + 18a^3b^2c^3e^2h^2l^2 - 9a^2b^4c^2e^2h^2l^2 + 18a^2b^2c^4d^2g^2k^2 + 12a^6c^2j^3k^2l^2m + 3a^6b^2j^2k^2l^3m - 12a^6c^2g^2k^3l^2m - 12a^5c^3g^3k^2l^2m - 24a^6c^2e^2k^2l^3m - 24a^4c^4e^3k^2l^2m + 12a^6c^2h^2j^2k^2l^3 + 12a^6c^2f^2j^2l^3m + 12a^5c^3h^3j^2k^2l - 3a^5b^3h^2j^2k^2m^3 - 3a^5b^3g^2j^2l^2m^3 - 3a^5b^3f^2k^2l^2m^3 + 12a^6c^2g^2h^2l^3m + 12a^5c^3g^2h^3l^2m - 12a^6c^2e^2j^2k^2m^3 - 12a^6c^2d^2j^2l^2m^3 - 12a^5c^3f^2j^2k^2l - 12a^5c^3e^2j^2k^2m - 12a^5c^3d^2j^2l^2m - 12a^4c^4f^3j^2k^2l + 24a^6c^2f^2h^2k^2m^3 + 24a^6c^2f^2g^2l^2m^3 + 24a^4c^4f^3h^2k^2m + 24a^4c^4f^3g^2l^2m - 12a^6c^2g^2h^2j^2m^3 - 12a^6c^2e^2h^2l^2m^3 - 12a^5c^3g^2h^2j^2l^2m^3 + 3b^6c^2d^3j^2k^2l + 3a^4b^4e^2j^2k^2m^3 + 3a^4b^4d^2j^2l^2m^3 - 24a^5c^3d^2j^2k^2l^3 - 24a^3c^5d^3j^2k^2l - 6a^4b^4e^2h^2l^2m^3 + 3b^6c^2d^3h^2k^2m + 3b^6c^2d^3g^2l^2m + 3a^6b^2c^2j^2l^3m + 3a^4b^4g^2h^2j^2m^3 + 3a^4b^4f^2h^2k^2m^3 + 3a^4b^4f^2g^2l^2m^3 - 24a^5c^3d^2h^2k^2l^3m - 24a^
\end{aligned}$$

$$\begin{aligned}
& 3*c^5*d^3*h*k*m + 12*a^5*c^3*g*h*j*k^3 + 12*a^5*c^3*f*g*k^3*l + 12*a^5*c^3* \\
& e*h*k^3*l + 12*a^5*c^3*e*g*k^3*m + 12*a^4*c^4*g^3*h*j*k + 12*a^4*c^4*f*g^3* \\
& k*l + 12*a^4*c^4*f*g^3*j*m + 12*a^4*c^4*e*g^3*k*m + 12*a^4*c^4*d*g^3*l*m + \\
& 12*a^3*c^5*d^3*g*l*m + 3*a^6*b*c*j*k^3*m^2 - 9*a^6*b*c*h^2*l*m^3 - 3*a^5*b* \\
& c^2*j^4*k*l + 24*a^5*c^3*e*g*j*l^3 + 24*a^5*c^3*e*f*k*l^3 + 24*a^5*c^3*d*e* \\
& l^3*m + 24*a^3*c^5*e^3*g*j*l + 24*a^3*c^5*e^3*f*k*l + 24*a^3*c^5*d*e^3*l*m \\
& - 12*a^5*c^3*d*h*j*l^3 - 12*a^5*c^3*d*g*k*l^3 - 12*a^4*c^4*e*h^3*j*k - 12*a \\
& ^4*c^4*d*h^3*j*l - 12*a^3*c^5*e^3*h*j*k - 12*a^3*c^5*e^3*f*j*m + 9*a^4*b*c^ \\
& 3*g^4*l*m + 6*b^5*c^3*d^3*f*j*m + 6*a^3*b^5*d*g*k*m^3 - 3*b^5*c^3*d^3*h*j*k \\
& - 3*b^5*c^3*d^3*g*j*l - 3*b^5*c^3*d^3*f*k*l - 3*b^5*c^3*d^3*e*k*m - 3*a^3* \\
& b^5*e*g*j*m^3 - 3*a^3*b^5*e*f*k*m^3 - 3*a^3*b^5*d*h*j*m^3 - 3*a^3*b^5*d*f*l \\
& *m^3 - 12*a^5*c^3*f*g*h*l^3 - 12*a^4*c^4*f*g*h^3*l - 12*a^4*c^4*e*g*h^3*m - \\
& 12*a^3*c^5*e^3*g*h*m - 9*a^6*b*c*g*k^2*m^3 - 3*b^5*c^3*d^3*g*h*m + 3*a^6*b \\
& *c*f*l^3*m^2 - 3*a^3*b^5*f*g*h*m^3 + 12*a^5*c^3*d*e*j*m^3 + 12*a^4*c^4*e*f* \\
& j^3*k + 12*a^4*c^4*d*g*j^3*k + 12*a^4*c^4*d*f*j^3*l + 12*a^4*c^4*d*e*j^3*m \\
& + 12*a^3*c^5*e*f^3*j*k + 12*a^3*c^5*d*f^3*j*l - 9*a^6*b*c*e*l^2*m^3 - 24*a^ \\
& 5*c^3*e*f*g*m^3 - 24*a^5*c^3*d*f*h*m^3 - 24*a^3*c^5*e*f^3*g*m - 24*a^3*c^5* \\
& d*f^3*h*m - 15*a^2*b*c^5*d^4*l*m + 15*a*b^3*c^4*d^4*l*m + 12*a^4*c^4*f*g*h* \\
& j^3 + 12*a^3*c^5*f^3*g*h*j + 12*a^3*c^5*e*f^3*h*l + 9*a^3*b*c^4*f^4*k*l - 9 \\
& *a^3*b*c^4*f^4*j*m + 3*b^4*c^4*d^3*e*j*k + 3*a^5*b^2*c*g*j*l^4 + 3*a^5*b^2* \\
& c*f*k*l^4 + 3*a^5*b^2*c*d*l^4*m - 3*a^5*b*c^2*h*j*k^4 - 3*a^5*b*c^2*f*k^4*l \\
& - 3*a^5*b*c^2*e*k^4*m - 3*a^4*b*c^3*h^4*j*k + 3*a^2*b^6*d*e*j*m^3 + 3*a*b^ \\
& 4*c^3*e^4*k*m + 24*a^4*c^4*d*e*j*k^3 + 24*a^2*c^6*d^3*e*j*k - 6*b^4*c^4*d^3 \\
& *e*h*l + 3*b^4*c^4*d^3*g*h*j + 3*b^4*c^4*d^3*f*h*k + 3*b^4*c^4*d^3*f*g*l + \\
& 3*b^4*c^4*d^3*e*g*m - 3*a^4*b*c^3*g*h^4*m + 3*a^2*b^6*e*f*g*m^3 + 3*a^2*b^6 \\
& *d*f*h*m^3 - 3*a*b^6*c*e^3*j*m^2 + 24*a^4*c^4*d*f*h*k^3 + 24*a^2*c^6*d^3*f* \\
& h*k - 12*a^4*c^4*e*f*g*k^3 - 12*a^3*c^5*e*f*g^3*k - 12*a^3*c^5*d*g^3*h*j - \\
& 12*a^3*c^5*d*f*g^3*l - 12*a^3*c^5*d*e*g^3*m - 12*a^2*c^6*d^3*g*h*j - 12*a^2 \\
& *c^6*d^3*f*g*l - 12*a^2*c^6*d^3*e*h*l - 12*a^2*c^6*d^3*e*g*m - 12*a*b^2*c^5 \\
& *d^4*j*l + 9*a^5*b*c^2*d*j*l^4 + 9*a^2*b*c^5*e^4*j*k - 3*a^4*b^3*c*d*j*l^4 \\
& - 3*a^4*b*c^3*e*j^4*k - 3*a^4*b*c^3*d*j^4*l - 3*a*b^3*c^4*e^4*j*k - 24*a^4* \\
& c^4*d*e*f*l^3 - 24*a^2*c^6*d*e^3*f*l - 12*a^5*b^2*c*e*g*m^4 - 12*a^5*b^2*c* \\
& d*h*m^4 + 12*a^3*c^5*d*e*h^3*j + 12*a^2*c^6*d*e^3*h*j + 12*a^2*c^6*d*e^3*g* \\
& k - 12*a*b^2*c^5*d^4*h*m + 9*a^5*b*c^2*f*g*l^4 - 9*a^5*b*c^2*e*h*l^4 - 9*a^ \\
& 2*b*c^5*e^4*h*l + 9*a^2*b*c^5*e^4*g*m + 6*a^4*b^3*c*e*h*l^4 + 6*a*b^3*c^4*e \\
& ^4*h*l - 3*b^3*c^5*d^3*e*g*j - 3*b^3*c^5*d^3*e*f*k - 3*a^4*b^3*c*f*g*l^4 - \\
& 3*a^4*b*c^3*g*h*j^4 - 3*a^3*b*c^4*g^4*h*j - 3*a^3*b*c^4*f*g^4*l - 3*a^3*b*c \\
& ^4*e*g^4*m - 3*a*b^3*c^4*e^4*g*m + 12*a^3*c^5*e*f*g*h^3 + 12*a^2*c^6*e^3*f* \\
& g*h - 3*b^3*c^5*d^3*f*g*h - 12*a^3*c^5*d*e*f*j^3 - 12*a^2*c^6*d*e*f^3*j - 3 \\
& *a*b^6*c*d^2*g*l^3 - 15*a^5*b*c^2*d*e*m^4 + 15*a^4*b^3*c*d*e*m^4 + 9*a^4*b* \\
& c^3*e*f*k^4 - 9*a^4*b*c^3*d*g*k^4 + 3*a^3*b^4*c*d*f*l^4 - 3*a^3*b*c^4*d*h^4 \\
& *j - 3*a^2*b*c^5*e*f^4*k - 3*a^2*b*c^5*d*f^4*l + 3*a*b^2*c^5*e^4*g*j + 3*a* \\
& b^2*c^5*e^4*f*k + 3*a*b^2*c^5*d*e^4*m - 9*a*b*c^6*d^3*e^2*l + 3*b^2*c^6*d^3 \\
& *e*f*g - 3*a^3*b*c^4*f*g*h^4 - 3*a^2*b*c^5*f^4*g*h + 12*a^2*c^6*d*e*f*g^3 - \\
& 9*a*b*c^6*d^3*f^2*j + 3*a*b*c^6*d^2*e^3*k + 9*a^3*b*c^4*d*e*j^4 - 3*a^2*b*
\end{aligned}$$

$$\begin{aligned}
& c^5 e f g^4 - 9 a b c^6 d^3 e h^2 + 3 a b c^6 d^2 f^3 g + 3 a b c^6 d e^3 g \\
& ^2 - 3 a^4 b^2 c^2 h^3 j^2 m + 12 a^4 b^2 c^2 g^3 j m^2 - 3 a^4 b^2 c^2 f^2 \\
& * k^3 m + 3 a^3 b^3 c^2 g^3 j^2 m - 9 a^3 b^4 c f^2 j^2 m^2 + 9 a^3 b^3 c^2 \\
& f^2 j^3 m - 6 a^3 b^3 c^2 f^3 j m^2 - 6 a^3 b^2 c^3 f^3 j^2 m - 3 a^2 b^4 c \\
& ^2 f^3 j^2 m - 27 a^4 b^2 c^2 d^2 k m^3 - 27 a^3 b^2 c^3 e^3 j m^2 + 18 a^2 \\
& * b^4 c^2 e^3 j m^2 - 15 a^2 b^3 c^3 e^3 j^2 m + 12 a^4 b^2 c^2 f^2 j l^3 + \\
& 3 a^3 b^3 c^2 e^2 k^3 l + 42 a^2 b^3 c^3 d^3 j m^2 - 27 a^2 b^2 c^4 d^3 j^2 \\
& * m - 15 a^3 b^3 c^2 d^2 k l^3 - 3 a^4 b^2 c^2 f j^2 k^3 - 3 a^4 b^2 c^2 f h \\
& ^3 m^2 + 3 a^3 b^3 c^2 g^3 h l^2 + 3 a^3 b^3 c^2 f^2 j k^3 - 3 a^3 b^2 c^3 g \\
& ^3 h^2 l - 3 a^3 b^2 c^3 e^2 j^3 l - 27 a^4 b^2 c^2 e^2 h m^3 + 12 a^3 b^2 \\
& * c^3 f^3 h l^2 + 3 a^3 b^3 c^2 f g^3 m^2 - 3 a^2 b^4 c^2 f^3 h l^2 + 3 a^2 * \\
& b^3 c^3 f^3 h^2 l + 9 a^3 b^3 c^2 e h^3 l^2 + 9 a^2 b^3 c^3 e^2 h^3 l - 6 a \\
& ^4 b^2 c^2 e h^2 l^3 - 6 a^3 b^3 c^2 e^2 h l^3 - 6 a^2 b^3 c^3 e^3 h l^2 - \\
& 6 a^2 b^2 c^4 e^3 h^2 l + 3 a^2 b^3 c^3 d^2 j^3 k + 42 a^3 b^3 c^2 d^2 g m^3 \\
& - 27 a^4 b^2 c^2 d g^2 m^3 - 27 a^2 b^2 c^4 d^3 h l^2 - 15 a^2 b^3 c^3 e^3 \\
& * f m^2 + 12 a^3 b^2 c^3 e^2 h k^3 + 3 a^3 b^3 c^2 e h^2 k^3 - 3 a^3 b^2 c^3 \\
& * e g^3 l^2 - 3 a^2 b^4 c^2 e^2 h k^3 + 3 a^2 b^3 c^3 f^3 g k^2 - 3 a^2 b^2 \\
& * c^4 f^3 g^2 k - 27 a^3 b^2 c^3 d^2 g l^3 - 27 a^2 b^2 c^4 d^3 f m^2 + 18 a \\
& ^2 b^4 c^2 d^2 g l^3 - 15 a^3 b^3 c^2 d g^2 l^3 + 12 a^2 b^2 c^4 e^3 g k^2 \\
& - 3 a^3 b^2 c^3 e h^2 j^3 + 3 a^2 b^3 c^3 e^2 h j^3 + 3 a^2 b^3 c^3 e f^3 l \\
& ^2 - 3 a^2 b^2 c^4 d^2 h^3 k + 9 a^2 b^3 c^3 d g^3 k^2 - 9 a b^4 c^3 d^2 g^ \\
& ^2 k^2 - 6 a^3 b^2 c^3 d g^2 k^3 - 6 a^2 b^3 c^3 d^2 g k^3 - 3 a^2 b^4 c^2 d \\
& * g^2 k^3 + 12 a^2 b^2 c^4 d^2 g j^3 + 3 a^2 b^3 c^3 d g^2 j^3 - 3 a^2 b^2 c \\
& ^4 d f^3 k^2 - 3 a^2 b^2 c^4 d g^2 h^3 + 12 a^7 c j k l m^3 - 3 b^7 c d^3 k \\
& * l m - 3 a^6 b c k^4 l m - 3 a^6 b c j k l^4 - 3 a^6 b c g l^4 m - 9 a^6 b * \\
& c f j m^4 + 9 a^6 b c e k m^4 + 9 a^6 b c d l m^4 + 9 a^6 b c g h m^4 - 3 a \\
& * b^7 d e f m^3 + 9 a b c^6 d^4 h j - 9 a b c^6 d^4 g k + 9 a b c^6 d^4 f l \\
& + 9 a b c^6 d^4 e m + 12 a c^7 d^3 e f g - 3 a b c^6 d e^4 j - 3 a b c^6 e^ \\
& ^4 f g - 3 a b c^6 d e f^4 + 18 a^6 c^2 h^2 j l m^2 - 18 a^6 c^2 h j^2 l^2 m \\
& + 18 a^6 c^2 f k^2 l^2 m + 36 a^5 c^3 e^2 k l^2 m + 18 a^6 c^2 g j k^2 m^2 \\
& + 18 a^6 c^2 e k^2 l m^2 + 18 a^5 c^3 g^2 j^2 k m + 18 a^6 c^2 e j l^2 m^2 \\
& + 18 a^6 c^2 d k l^2 m^2 - 18 a^5 c^3 e^2 j l m^2 - 18 a^6 c^2 f h l^2 m^2 \\
& + 18 a^5 c^3 f^2 h l^2 m - 36 a^5 c^3 f^2 h k m^2 - 36 a^5 c^3 f^2 g l m^2 \\
& + 18 a^5 c^3 g^2 h k l^2 - 18 a^5 c^3 g h^2 k^2 l + 18 a^5 c^3 f h^2 k^2 m \\
& + 18 a^5 c^3 f g^2 l^2 m + 18 a^5 c^3 e j^2 k^2 l + 18 a^5 c^3 d j^2 k^2 m \\
& - 18 a^4 c^4 d^2 j^2 k m + 36 a^4 c^4 d^2 j k^2 l + 18 a^5 c^3 f g^2 k m^2 \\
& + 18 a^5 c^3 e g^2 l m^2 + 18 a^5 c^3 d j^2 k l^2 - 18 a^4 c^4 f^2 g^2 k m \\
& + 36 a^4 c^4 d^2 h k^2 m + 18 a^5 c^3 f h j^2 l^2 - 18 a^5 c^3 e h^2 j m^2 \\
& + 18 a^5 c^3 d h^2 k m^2 + 18 a^4 c^4 f^2 h^2 j l - 18 a^4 c^4 e^2 h j^2 m \\
& - 18 a^5 c^3 e g k^2 l^2 + 18 a^5 c^3 d h k^2 l^2 + 18 a^4 c^4 e^2 g k^2 l \\
& + 18 a^4 c^4 e^2 f k^2 m - 18 a^4 c^4 d^2 h k l^2 + 18 a^4 c^4 d^2 f l^2 m \\
& - 36 a^4 c^4 e^2 g j l^2 - 36 a^4 c^4 e^2 f k l^2 - 36 a^4 c^4 d e^2 l^2 m \\
& + 18 a^5 c^3 d f k^2 m^2 + 18 a^4 c^4 f^2 g j k^2 + 18 a^4 c^4 d^2 g j m^2 \\
& - 18 a^4 c^4 d^2 f k m^2 + 18 a^4 c^4 d^2 e l m^2 - 18 a^4 c^4 f g^2 j^2 k \\
& + 18 a^4 c^4 f g^2 h^2 m + 18 a^4 c^4 e g^2 j^2 l + 18 a^4 c^4 e f^2 k^2 l
\end{aligned}$$

$$\begin{aligned}
& - 18a^4c^4d^2g^2j^2m - 18a^4c^4d^2f^2k^2m + 18a^3c^5d^2f^2k^2m \\
& + 3a^4b^2c^2h^4k^2m - 3a^3b^3c^2g^4l^2m + 18a^4c^4e^2f^2j^2l^2 + \\
& 18a^4c^4d^2h^2j^2k + 18a^4c^4d^2f^2k^2l^2 + 18a^4c^4d^2e^2k^2m^2 - \\
& 18a^3c^5e^2f^2j^2l + 12a^5b^2c^2g^2k^2m^3 - 9a^5b^2c^2h^3j^2m^2 - \\
& 9a^5b^2c^2f^2l^3m + 3a^5b^2c^2h^2k^3l + 3a^4b^3c^2h^3j^2m^2 + 3a^4 \\
& ^4b^3c^2f^2l^3m - 18a^4c^4e^2f^2h^2m + 18a^3c^5e^2f^2h^2m + 15a^ \\
& ^5b^2c^2e^2l^2m^3 - 15a^4b^3c^2e^2l^2m^3 - 9a^5b^2c^2g^2k^2l^3 - 9a^4 \\
& *b^2c^3g^3j^2m - 3a^5b^2c^2g^2k^2l^3 + 3a^5b^2c^2h^2j^3l^2 + 3a^4b^2 \\
& ^3c^2g^2k^2l^3 - 3a^3b^4c^2g^3j^2m^2 + 36a^4c^4e^2f^2g^2m^2 + 36a^4c^4 \\
& *d^2f^2h^2m^2 + 18a^4c^4e^2g^2h^2k^2 - 18a^4c^4d^2g^2h^2l^2 - 18a^4c^4 \\
& *d^2f^2j^2k^2 + 18a^3c^5e^2g^2h^2k + 18a^3c^5e^2f^2g^2m - 18a^3c^5 \\
& *d^2g^2h^2l + 18a^3c^5d^2f^2j^2k + 18a^3c^5d^2f^2h^2m + 18a^3c^5 \\
& *d^2e^2j^2l - 12a^2b^2c^4e^4k^2m + 9a^4b^3c^2f^2j^3m^2 - 9a^4b^2c^ \\
& ^2f^2j^4m - 6a^5b^2c^2f^2j^2m^3 + 6a^5b^2c^2f^2j^2m^3 - 6a^5b^2c^2f^2 \\
& j^3m^2 - 6a^4b^3c^2f^2j^2m^3 + 6a^4b^2c^3f^3j^2m^2 - 6a^4b^2c^3f^2j^ \\
& ^3m + 6a^2b^3c^3f^4j^2m + 3a^3b^2c^3g^4j^2l + 3a^2b^5c^2f^3j^2m^ \\
& ^2 - 3a^2b^3c^3f^4k^2l - 36a^3c^5d^2e^2j^2k^2 - 18a^4c^4d^2f^2g^2m^2 \\
& + 18a^3c^5e^2f^2g^2l + 18a^3c^5d^2f^2g^2m + 18a^3c^5d^2e^2j^2k \\
& + 18a^3b^4c^2d^2k^2m^3 + 15a^3b^2c^4e^3j^2m + 12a^5b^2c^2d^2k^2m^3 \\
& - 9a^5b^2c^2f^2j^2l^3 - 9a^4b^2c^3e^2k^3l + 3a^5b^2c^2e^2k^3l^2 + \\
& 3a^4b^3c^2f^2j^2l^3 + 3a^4b^2c^3g^2j^3k - 3a^3b^4c^2f^2j^2l^3 + 3a^ \\
& ^3b^2c^3g^4h^2m + 3a^2b^5c^2e^3j^2m - 36a^3c^5d^2f^2h^2k^2 - 21a^ \\
& ^3b^2c^4d^3j^2m^2 - 21a^2b^5c^2d^3j^2m^2 + 18a^3c^5e^2f^2h^2j^2 - 18a^ \\
& ^3c^5e^2f^2h^2j + 18a^3c^5d^2f^2h^2k + 18a^2b^4c^3d^3j^2m + 15a^ \\
& ^4b^2c^3d^2k^2l^3 - 9a^5b^2c^2d^2k^2l^3 - 9a^4b^2c^3g^3h^2l^2 - 9a^4b \\
& ^2c^3f^2j^2k^3 + 3a^4b^3c^2d^2k^2l^3 + 3a^2b^5c^2d^2k^2l^3 - 18a^3c^5 \\
& *d^2e^2g^2l^2 + 18a^3c^5d^2e^2h^2k^2 + 18a^3b^4c^2e^2h^2m^3 - 18a^2c^6 \\
& *d^2e^2h^2k + 18a^2c^6d^2e^2g^2l + 18a^2c^6d^2e^2f^2m + 15a^5b^2c^ \\
& ^2e^2h^2m^3 - 15a^4b^3c^2e^2h^2m^3 - 9a^4b^2c^3f^2g^3m^2 - 9a^3b^2c^4 \\
& *f^3h^2l + 3a^4b^2c^2e^2j^2k^4 + 3a^4b^2c^3g^2h^3k^2 + 3a^3b^2c^4f^ \\
& ^2g^3m + 36a^3c^5d^2e^2f^2l^2 + 18a^3c^5d^2f^2g^2j^2 + 18a^2c^6d^2 \\
& f^2g^2j + 18a^2c^6d^2e^2f^2l - 9a^3b^2c^3e^2h^4l - 9a^3b^2c^4d^2 \\
& j^3k + 6a^4b^2c^3e^2h^2l^3 - 6a^4b^2c^3e^2h^3l^2 + 6a^3b^2c^4e^3h^2l \\
& ^2 - 6a^3b^2c^4e^2h^3l + 3a^4b^2c^2f^2h^2k^4 + 3a^4b^2c^3d^2j^3k^2 \\
& - 3a^3b^4c^2e^2h^2l^3 + 3a^2b^5c^2e^2h^2l^3 + 3a^2b^2c^4f^4h^2k + 3 \\
& *a^2b^2c^4f^4g^2l + 3a^2b^5c^2e^3h^2l^2 - 3a^2b^4c^3e^3h^2l^2 - 21a^ \\
& ^4b^2c^3d^2g^2m^3 - 21a^2b^5c^2d^2g^2m^3 + 18a^3b^4c^2d^2g^2m^3 + 18a^ \\
& ^2c^6d^2e^2f^2k + 18a^2b^4c^3d^3h^2l^2 + 15a^3b^2c^4e^3f^2m^2 + 15a^ \\
& ^2b^2c^5d^3h^2l - 15a^2b^3c^4d^3h^2l - 9a^4b^2c^3e^2h^2k^3 - 9a^3 \\
& *b^2c^4f^3g^2k^2 - 9a^2b^2c^5e^3f^2m + 3a^3b^2c^4f^2h^3j + 3a^2b^5 \\
& c^2e^3f^2m^2 + 3a^2b^3c^4e^3f^2m + 18a^2b^4c^3d^3f^2m^2 + 15a^4b^2c^ \\
& ^3d^2g^2l^3 + 12a^2b^2c^5d^3f^2m - 9a^3b^2c^4e^2h^2j^3 - 9a^3b^2c^4 \\
& *e^2f^3l^2 - 9a^2b^2c^5e^3g^2k + 3a^3b^2c^4f^2g^3j^2 + 3a^2b^5c^2d^ \\
& g^2l^3 + 3a^2b^2c^5e^2f^3l - 3a^2b^4c^3e^3g^2k^2 + 3a^2b^3c^4e^3g^ \\
& ^2k + 18a^2c^6d^2e^2g^2h^2 - 18a^2c^6d^2e^2g^2h - 12a^4b^2c^2d^2f
\end{aligned}$$

$$\begin{aligned}
& *1^4 - 9*a^2*b^2*c^4*d*g^4*k + 9*a*b^3*c^4*d^2*g^3*k + 6*a^3*b^3*c^2*d*g*k^4 \\
& + 6*a^3*b*c^4*d^2*g*k^3 - 6*a^3*b*c^4*d*g^3*k^2 + 6*a^2*b*c^5*d^3*g*k^2 - \\
& 6*a^2*b*c^5*d^2*g^3*k - 6*a*b^3*c^4*d^3*g*k^2 - 6*a*b^2*c^5*d^3*g^2*k - 3* \\
& a^3*b^3*c^2*e*f*k^4 + 3*a^3*b^2*c^3*e*g*j^4 + 3*a^3*b^2*c^3*d*h*j^4 + 3*a*b \\
& ^5*c^2*d^2*g*k^3 + 15*a^2*b*c^5*d^3*e*1^2 - 15*a*b^3*c^4*d^3*e*1^2 - 9*a^3* \\
& b*c^4*d*g^2*j^3 - 9*a^2*b*c^5*e^3*f*j^2 - 3*a*b^4*c^3*d^2*g*j^3 + 3*a*b^3*c \\
& ^4*e^3*f*j^2 - 3*a*b^2*c^5*e^3*f^2*j + 12*a*b^2*c^5*d^3*f*j^2 - 9*a^2*b*c^5 \\
& *d*e^3*k^2 + 3*a^2*b*c^5*e^2*g^3*h + 3*a*b^3*c^4*d*e^3*k^2 - 9*a^2*b*c^5*d^ \\
& 2*g*h^3 - 3*a^2*b^3*c^3*d*e*j^4 + 3*a^2*b*c^5*e*f^3*h^2 + 3*a*b^3*c^4*d^2*g \\
& *h^3 + 3*a^2*b^2*c^4*d*f*h^4 - 9*a^7*c*k^2*1^2*m^2 - 6*a^6*c^2*j^2*k^3*m - \\
& 3*a^6*b^2*h*1^2*m^3 + 3*a^5*b^3*h^2*1*m^3 - 6*a^6*c^2*g^2*k*m^3 - 6*a^6*c^2 \\
& *h*k^3*1^2 + 6*a^5*c^3*h^3*j^2*m + 6*a^6*c^2*g*k^2*1^3 - 6*a^6*c^2*f*k^3*m^ \\
& 2 - 6*a^5*c^3*h^2*j^3*1 - 6*a^5*c^3*g^3*j*m^2 + 6*a^5*c^3*f^2*k^3*m + 3*a^5 \\
& *b^3*g*k^2*m^3 - 3*a^4*b^4*g^2*k*m^3 + 12*a^6*c^2*f*j^2*m^3 + 12*a^4*c^4*f^ \\
& 3*j^2*m + 3*a^5*b^3*e*1^2*m^3 + 3*a^3*b^5*e^2*1*m^3 - 6*a^6*c^2*d*k^2*m^3 - \\
& 6*a^5*c^3*f^2*j*1^3 + 6*a^5*c^3*d^2*k*m^3 - 6*a^5*c^3*g*j^3*k^2 + 6*a^4*c^ \\
& 4*e^3*j*m^2 - 3*b^6*c^2*d^3*j^2*m - 3*a^4*b^4*f*j^2*m^3 + 3*a^3*b^5*f^2*j*m \\
& ^3 + 6*a^5*c^3*f*j^2*k^3 + 6*a^5*c^3*f*h^3*m^2 - 6*a^5*c^3*e*j^3*1^2 + 6*a^ \\
& 4*c^4*g^3*h^2*1 - 6*a^4*c^4*f^2*h^3*m + 6*a^4*c^4*e^2*j^3*1 + 6*a^3*c^5*d^3 \\
& *j^2*m - 3*a^4*b^4*d*k^2*m^3 - 3*a^2*b^6*d^2*k*m^3 + 6*a^5*c^3*e^2*h*m^3 - \\
& 6*a^4*c^4*g^2*h^3*k - 6*a^4*c^4*f^3*h*1^2 + 12*a^5*c^3*e*h^2*1^3 + 12*a^3*c \\
& ^5*e^3*h^2*1 - 3*b^6*c^2*d^3*h*1^2 + 3*b^5*c^3*d^3*h^2*1 - 3*a^5*b^2*c*j^4* \\
& m^2 + 3*a^3*b^5*e*h^2*m^3 - 3*a^2*b^6*e^2*h*m^3 + 6*a^5*c^3*d*g^2*m^3 - 6*a \\
& ^4*c^4*e^2*h*k^3 - 6*a^4*c^4*f*h^3*j^2 + 6*a^4*c^4*e*g^3*1^2 + 6*a^3*c^5*f^ \\
& 3*g^2*k - 6*a^3*c^5*e^2*g^3*1 + 6*a^3*c^5*d^3*h*1^2 - 3*b^6*c^2*d^3*f*m^2 - \\
& 3*b^4*c^4*d^3*f^2*m + 6*a^4*c^4*d^2*g*1^3 + 6*a^4*c^4*e*h^2*j^3 - 6*a^4*c^ \\
& 4*d*h^3*k^2 - 6*a^3*c^5*f^2*g^3*j - 6*a^3*c^5*e^3*g*k^2 + 6*a^3*c^5*d^3*f*m \\
& ^2 + 6*a^3*c^5*d^2*h^3*k - 6*a^2*c^6*d^3*f^2*m + 4*a^5*b^2*c*h^3*m^3 + 3*b^ \\
& 5*c^3*d^3*g*k^2 - 3*b^4*c^4*d^3*g^2*k - 3*a^2*b^6*d*g^2*m^3 + a^5*b*c^2*j^3 \\
& *k^3 + 12*a^4*c^4*d*g^2*k^3 + 12*a^2*c^6*d^3*g^2*k + 6*a^5*b*c^2*h^3*1^3 + \\
& 5*a^5*b*c^2*g^3*m^3 - 5*a^4*b^3*c*g^3*m^3 + 3*b^5*c^3*d^3*e*1^2 + 3*b^3*c^5 \\
& *d^3*e^2*1 - 3*a^5*b^2*c*h^2*1^4 + a^4*b^3*c*h^3*1^3 + 12*a^5*b^2*c*f^2*m^4 \\
& - 6*a^3*c^5*d^2*g*j^3 + 6*a^3*c^5*d*f^3*k^2 + 6*a^3*b^4*c*f^3*m^3 + 6*a^2* \\
& c^6*e^3*f^2*j - 6*a^2*c^6*d^2*f^3*k - 3*b^4*c^4*d^3*f*j^2 + 3*b^3*c^5*d^3*f \\
& ^2*j - 3*a^2*b^2*c^4*f^5*m - 7*a^4*b*c^3*e^3*m^3 - 7*a^2*b^5*c*e^3*m^3 + 6* \\
& a^4*b*c^3*g^3*k^3 - 6*a^3*c^5*e*g^3*h^2 - 6*a^2*c^6*d^3*f*j^2 + 5*a^4*b*c^3 \\
& *f^3*1^3 + a^4*b*c^3*h^3*j^3 + a^2*b^5*c*f^3*1^3 + 6*a^3*c^5*d*g^2*h^3 - 6* \\
& a^2*c^6*e^2*f^3*h - 3*a^3*b^4*c*e^2*1^4 - 3*a*b^4*c^3*e^4*1^2 - 7*a^3*b*c^4 \\
& *d^3*1^3 - 7*a*b^5*c^2*d^3*1^3 + 6*a^3*b*c^4*f^3*j^3 + 5*a^3*b*c^4*e^3*k^3 \\
& + 3*b^3*c^5*d^3*e*h^2 - 3*b^2*c^6*d^3*e^2*h + a*b^5*c^2*e^3*k^3 + 12*a*b^2* \\
& c^5*d^4*k^2 - 6*a^2*c^6*d*f^3*g^2 + 6*a*b^4*c^3*d^3*k^3 - 3*a^4*b^2*c^2*d*k \\
& ^5 + a^3*b*c^4*g^3*h^3 + 5*a^2*b*c^5*d^3*j^3 - 5*a*b^3*c^4*d^3*j^3 - 9*a*c^ \\
& 7*d^2*e^2*f^2 + 6*a^2*b*c^5*e^3*h^3 - 3*a*b^2*c^5*e^4*h^2 + a^2*b*c^5*f^3*g \\
& ^3 + a*b^3*c^4*e^3*h^3 + 4*a*b^2*c^5*d^3*h^3 - 3*a*b^2*c^5*d^2*g^4 - 6*a^7* \\
& c*j*1^3*m^2 + 6*a^7*c*h*1^2*m^3 + 6*a^6*c^2*j*k^4*1 + 6*a^6*c^2*h*k^4*m - 6
\end{aligned}$$

$$\begin{aligned}
& *a^5*c^3*h^4*k*m + 3*a^6*b^2*h*k*m^4 + 3*a^6*b^2*g*l*m^4 - 3*b^5*c^3*d^4*l* \\
& m - 6*a^6*c^2*g*j*l^4 - 6*a^6*c^2*f*k*l^4 - 6*a^6*c^2*d*l^4*m + 6*a^5*c^3*h \\
& *j^4*k + 6*a^5*c^3*g*j^4*l + 6*a^5*c^3*f*j^4*m - 6*a^4*c^4*g^4*j*l + 6*a^3*c \\
& ^5*e^4*k*m + 6*a^5*b^3*f*j*m^4 - 6*a^4*c^4*g^4*h*m + 3*b^7*c*d^3*j*m^2 - 3 \\
& *a^5*b^3*e*k*m^4 - 3*a^5*b^3*d*l*m^4 + 3*b^4*c^4*d^4*j*l - 3*a^5*b^3*g*h*m^4 \\
& - 6*a^5*c^3*e*j*k^4 + 6*a^2*c^6*d^4*j*l + 3*b^4*c^4*d^4*h*m + 6*a^6*c^2*e \\
& *g*m^4 + 6*a^6*c^2*d*h*m^4 + 6*a^6*b*c*j^3*m^3 - 6*a^5*c^3*f*h*k^4 + 6*a^4*c \\
& ^4*g*h^4*j + 6*a^4*c^4*f*h^4*k + 6*a^4*c^4*e*h^4*l + 6*a^4*c^4*d*h^4*m - 6 \\
& *a^3*c^5*f^4*h*k - 6*a^3*c^5*f^4*g*l + 6*a^2*c^6*d^4*h*m + 3*a^5*b*c^2*j^5* \\
& m + a^6*b*c*k^3*l^3 + 3*a^4*b^4*e*g*m^4 + 3*a^4*b^4*d*h*m^4 + 6*b^3*c^5*d^4 \\
& *g*k - 3*b^3*c^5*d^4*h*j - 3*b^3*c^5*d^4*f*l - 3*b^3*c^5*d^4*e*m + 3*a*b^7* \\
& d^2*g*m^3 + 6*a^5*c^3*d*f*l^4 - 6*a^4*c^4*e*g*j^4 - 6*a^4*c^4*d*h*j^4 + 6*a \\
& ^3*c^5*e*g^4*j + 6*a^3*c^5*d*g^4*k - 6*a^2*c^6*e^4*g*j - 6*a^2*c^6*e^4*f*k \\
& - 6*a^2*c^6*d*e^4*m + 3*a^4*b*c^3*h^5*l + 6*a^3*c^5*f*g^4*h - 3*a^3*b^5*d*e \\
& *m^4 + 3*b^2*c^6*d^4*e*j + 3*a^5*b*c^2*g*k^5 + 3*a^3*b*c^4*g^5*k + 8*a*b^6* \\
& c*d^3*m^3 + 3*b^2*c^6*d^4*f*h - 3*a^5*b^2*c*e*l^5 - 3*a*b^2*c^5*e^5*l - 6*a \\
& ^3*c^5*d*f*h^4 + 6*a^2*c^6*e*f^4*g + 6*a^2*c^6*d*f^4*h + 3*a^4*b*c^3*f*j^5 \\
& + 3*a^2*b*c^5*f^5*j + 6*a*c^7*d^3*e^2*h - 6*a*c^7*d^2*e^3*g + 3*a^3*b*c^4*e \\
& *h^5 + 6*a*b*c^6*d^3*g^3 + 3*a^2*b*c^5*d*g^5 + a*b*c^6*e^3*f^3 - 9*a^6*c^2* \\
& j^2*k^2*l^2 - 9*a^6*c^2*h^2*k^2*m^2 - 9*a^6*c^2*g^2*l^2*m^2 - 18*a^5*c^3*f^ \\
& 2*j^2*m^2 - 9*a^5*c^3*h^2*j^2*k^2 - 9*a^5*c^3*g^2*j^2*l^2 - 9*a^5*c^3*f^2*k \\
& ^2*l^2 - 9*a^5*c^3*e^2*k^2*m^2 - 9*a^5*c^3*d^2*l^2*m^2 - 9*a^5*c^3*g^2*h^2* \\
& m^2 - 9*a^4*c^4*e^2*j^2*k^2 - 9*a^4*c^4*d^2*j^2*l^2 - 18*a^4*c^4*e^2*h^2*l^ \\
& 2 - 9*a^4*c^4*g^2*h^2*j^2 - 9*a^4*c^4*f^2*h^2*k^2 - 9*a^4*c^4*f^2*g^2*l^2 - \\
& 9*a^4*c^4*e^2*g^2*m^2 - 9*a^4*c^4*d^2*h^2*m^2 - 18*a^3*c^5*d^2*g^2*k^2 - 9 \\
& *a^3*c^5*e^2*g^2*j^2 - 9*a^3*c^5*e^2*f^2*k^2 - 9*a^3*c^5*d^2*h^2*j^2 - 9*a^ \\
& 3*c^5*d^2*f^2*l^2 - 9*a^3*c^5*d^2*e^2*m^2 - 3*a^4*b^2*c^2*h^4*l^2 - 18*a^4* \\
& b^2*c^2*f^3*m^3 + 12*a^3*b^2*c^3*f^4*m^2 - 9*a^3*c^5*f^2*g^2*h^2 + 4*a^4*b^ \\
& 2*c^2*g^3*l^3 - 3*a^2*b^4*c^2*f^4*m^2 + 14*a^3*b^3*c^2*e^3*m^3 - 5*a^3*b^3* \\
& c^2*f^3*l^3 - 3*a^4*b^2*c^2*g^2*k^4 - 3*a^3*b^2*c^3*g^4*k^2 + a^3*b^3*c^2*g \\
& ^3*k^3 - 20*a^2*b^4*c^2*d^3*m^3 - 18*a^3*b^2*c^3*e^3*l^3 + 16*a^3*b^2*c^3*d \\
& ^3*m^3 + 12*a^4*b^2*c^2*e^2*l^4 + 12*a^2*b^2*c^4*e^4*l^2 - 9*a^2*c^6*d^2*e^ \\
& 2*j^2 + 6*a^2*b^4*c^2*e^3*l^3 + 4*a^3*b^2*c^3*f^3*k^3 + 14*a^2*b^3*c^3*d^3* \\
& l^3 - 9*a^2*c^6*e^2*f^2*g^2 - 9*a^2*c^6*d^2*f^2*h^2 - 5*a^2*b^3*c^3*e^3*k^3 \\
& - 3*a^3*b^2*c^3*f^2*j^4 - 3*a^2*b^2*c^4*f^4*j^2 + a^2*b^3*c^3*f^3*j^3 - 18 \\
& *a^2*b^2*c^4*d^3*k^3 + 12*a^3*b^2*c^3*d^2*k^4 + 4*a^2*b^2*c^4*e^3*j^3 - 3*a \\
& ^2*b^4*c^2*d^2*k^4 - 3*a^2*b^2*c^4*e^2*h^4 + 6*a^7*c*k*l^4*m - 3*a^7*b*k*l* \\
& m^4 - 6*a^7*c*h*k*m^4 - 6*a^7*c*g*l*m^4 + 3*a^6*b*c*h*l^5 - 6*a*c^7*d^4*e*j \\
& - 6*a*c^7*d^4*f*h - 3*b*c^7*d^4*e*f + 6*a*c^7*d*e^4*f + 3*a*b*c^6*e^5*h - \\
& a^5*b^2*c*j^3*l^3 - a^3*b^4*c*g^3*l^3 - a*b^4*c^3*e^3*j^3 - a*b^2*c^5*e^3*g \\
& ^3 + 3*a^7*b*j*m^5 + 6*a^7*c*f*m^5 + 6*a*c^7*d^5*k + 3*b*c^7*d^5*g - 3*a^6* \\
& c^2*j^4*m^2 - 3*a^6*b^2*j^2*m^4 + 2*a^6*c^2*j^3*l^3 + a^5*b^3*j^3*m^3 - 2*a \\
& ^6*c^2*h^3*m^3 - 3*a^6*c^2*h^2*l^4 - 3*a^5*c^3*h^4*l^2 - a*b^6*c*e^3*l^3 + \\
& 20*a^5*c^3*f^3*m^3 - 15*a^6*c^2*f^2*m^4 - 15*a^4*c^4*f^4*m^2 + 2*a^5*c^3*h^ \\
& 3*k^3 - 2*a^5*c^3*g^3*l^3 + a^3*b^5*g^3*m^3 - 3*a^5*c^3*g^2*k^4 - 3*a^4*c^4
\end{aligned}$$

$$\begin{aligned}
& *g^4*k^2 - 3*a^4*b^4*f^2*m^4 + 20*a^4*c^4*e^3*l^3 - 15*a^5*c^3*e^2*l^4 - 15 \\
& *a^3*c^5*e^4*l^2 + 2*a^4*c^4*g^3*j^3 - 2*a^4*c^4*f^3*k^3 - 2*a^4*c^4*d^3*m^ \\
& 3 - 3*b^4*c^4*d^4*k^2 - 3*a^4*c^4*f^2*j^4 - 3*a^3*c^5*f^4*j^2 + 20*a^3*c^5* \\
& d^3*k^3 - 15*a^4*c^4*d^2*k^4 - 15*a^2*c^6*d^4*k^2 - 2*a^3*c^5*e^3*j^3 + b^5 \\
& *c^3*d^3*j^3 + 2*a^3*c^5*f^3*h^3 - 3*a^3*c^5*e^2*h^4 - 3*a^2*c^6*e^4*h^2 - \\
& 3*b^2*c^6*d^4*g^2 + 2*a^2*c^6*e^3*g^3 - 2*a^2*c^6*d^3*h^3 + b^3*c^5*d^3*g^3 \\
& - 3*a^2*c^6*d^2*g^4 - a^4*b^2*c^2*h^3*k^3 - a^3*b^2*c^3*g^3*j^3 - a^2*b^4*c^ \\
& 2*f^3*k^3 - a^2*b^2*c^4*f^3*h^3 + 2*a^7*c*k^3*m^3 + a^7*b*l^3*m^3 - 3*a^7 \\
& *c*j^2*m^4 + 6*a^3*c^5*f^5*m - 3*a^6*b^2*f*m^5 + 6*a^6*c^2*e*l^5 + 6*a^2*c^ \\
& 6*e^5*l + b^7*c*d^3*l^3 + a*b^7*e^3*m^3 - 3*b^2*c^6*d^5*k + 6*a^5*c^3*d*k^5 \\
& - 3*a*c^7*d^4*g^2 + 2*a*c^7*d^3*f^3 + b*c^7*d^3*e^3 - a^6*b^2*k^3*m^3 - a^ \\
& 4*b^4*h^3*m^3 - a^2*b^6*f^3*m^3 - b^6*c^2*d^3*k^3 - b^4*c^4*d^3*h^3 - b^2*c^ \\
& ^6*d^3*f^3 - b^8*d^3*m^3 - a^6*c^2*k^6 - a^5*c^3*j^6 - a^4*c^4*h^6 - a^3*c^ \\
& 5*g^6 - a^2*c^6*f^6 - a^7*c*l^6 - a*c^7*e^6 - a^8*m^6 - c^8*d^6, z, k1)*(ro \\
& ot(34992*a^4*b^2*c^8*z^6 - 8748*a^3*b^4*c^7*z^6 + 729*a^2*b^6*c^6*z^6 - 466 \\
& 56*a^5*c^9*z^6 + 34992*a^4*b^3*c^6*m*z^5 - 8748*a^3*b^5*c^5*m*z^5 + 729*a^2 \\
& *b^7*c^4*m*z^5 - 34992*a^4*b^2*c^7*j*z^5 + 8748*a^3*b^4*c^6*j*z^5 - 729*a^2 \\
& *b^6*c^5*j*z^5 - 46656*a^5*b*c^7*m*z^5 + 46656*a^5*c^8*j*z^5 + 34992*a^5*b* \\
& c^6*j*m*z^4 - 11664*a^5*b*c^6*k*l*z^4 + 3888*a^4*b*c^7*f*j*z^4 + 3888*a^4*b \\
& *c^7*e*k*z^4 + 3888*a^4*b*c^7*d*l*z^4 + 3888*a^4*b*c^7*g*h*z^4 + 3888*a^3*b \\
& *c^8*d*e*z^4 + 243*a*b^5*c^6*d*e*z^4 - 25272*a^4*b^3*c^5*j*m*z^4 + 9720*a^4 \\
& *b^3*c^5*k*l*z^4 + 6075*a^3*b^5*c^4*j*m*z^4 - 2673*a^3*b^5*c^4*k*l*z^4 - 48 \\
& 6*a^2*b^7*c^3*j*m*z^4 + 243*a^2*b^7*c^3*k*l*z^4 - 7776*a^4*b^2*c^6*h*k*z^4 \\
& - 7776*a^4*b^2*c^6*g*l*z^4 - 7776*a^4*b^2*c^6*f*m*z^4 + 2430*a^3*b^4*c^5*h* \\
& k*z^4 + 2430*a^3*b^4*c^5*g*l*z^4 + 2430*a^3*b^4*c^5*f*m*z^4 - 243*a^2*b^6*c^ \\
& ^4*h*k*z^4 - 243*a^2*b^6*c^4*g*l*z^4 - 243*a^2*b^6*c^4*f*m*z^4 - 1944*a^3*b \\
& ^3*c^6*f*j*z^4 - 1944*a^3*b^3*c^6*e*k*z^4 - 1944*a^3*b^3*c^6*d*l*z^4 + 243* \\
& a^2*b^5*c^5*f*j*z^4 + 243*a^2*b^5*c^5*e*k*z^4 + 243*a^2*b^5*c^5*d*l*z^4 - 1 \\
& 944*a^3*b^3*c^6*g*h*z^4 + 243*a^2*b^5*c^5*g*h*z^4 + 3888*a^3*b^2*c^7*e*g*z^ \\
& 4 + 3888*a^3*b^2*c^7*d*h*z^4 - 486*a^2*b^4*c^6*e*g*z^4 - 486*a^2*b^4*c^6*d* \\
& h*z^4 - 1944*a^2*b^3*c^7*d*e*z^4 + 7776*a^5*c^7*h*k*z^4 + 7776*a^5*c^7*g*l* \\
& z^4 + 7776*a^5*c^7*f*m*z^4 - 7776*a^4*c^8*e*g*z^4 - 7776*a^4*c^8*d*h*z^4 - \\
& 13608*a^5*b^2*c^5*m^2*z^4 + 11421*a^4*b^4*c^4*m^2*z^4 - 2916*a^3*b^6*c^3*m^ \\
& 2*z^4 + 243*a^2*b^8*c^2*m^2*z^4 + 13608*a^4*b^2*c^6*j^2*z^4 - 3159*a^3*b^4*c^ \\
& ^5*j^2*z^4 + 243*a^2*b^6*c^4*j^2*z^4 + 1944*a^3*b^2*c^7*f^2*z^4 - 243*a^2* \\
& b^4*c^6*f^2*z^4 - 3888*a^6*c^6*m^2*z^4 - 19440*a^5*c^7*j^2*z^4 - 3888*a^4*c^ \\
& ^8*f^2*z^4 + 3078*a^4*b^4*c^3*k*l*m*z^3 - 2592*a^5*b^2*c^4*k*l*m*z^3 - 891* \\
& a^3*b^6*c^2*k*l*m*z^3 - 4536*a^4*b^3*c^4*j*k*l*z^3 + 1053*a^3*b^5*c^3*j*k*l \\
& *z^3 - 81*a^2*b^7*c^2*j*k*l*z^3 - 2592*a^4*b^3*c^4*h*k*m*z^3 - 2592*a^4*b^3 \\
& *c^4*g*l*m*z^3 + 810*a^3*b^5*c^3*h*k*m*z^3 + 810*a^3*b^5*c^3*g*l*m*z^3 - 81 \\
& *a^2*b^7*c^2*h*k*m*z^3 - 81*a^2*b^7*c^2*g*l*m*z^3 + 7776*a^4*b^2*c^5*f*j*m* \\
& z^3 + 3888*a^4*b^2*c^5*h*j*k*z^3 + 3888*a^4*b^2*c^5*g*j*l*z^3 - 3888*a^4*b^ \\
& 2*c^5*f*k*l*z^3 - 2916*a^3*b^4*c^4*f*j*m*z^3 + 1458*a^3*b^4*c^4*f*k*l*z^3 - \\
& 972*a^3*b^4*c^4*h*j*k*z^3 - 972*a^3*b^4*c^4*g*j*l*z^3 - 486*a^3*b^4*c^4*e* \\
& k*m*z^3 - 486*a^3*b^4*c^4*d*l*m*z^3 + 324*a^2*b^6*c^3*f*j*m*z^3 - 162*a^2*b
\end{aligned}$$

$$\begin{aligned}
& ^6c^3fkk1z^3 + 81a^2b^6c^3h*jkz^3 + 81a^2b^6c^3g*j*1z^3 + 81 \\
& a^2b^6c^3e*kmz^3 + 81a^2b^6c^3d*1*mmz^3 - 486a^3b^4c^4g*h*mmz \\
& ^3 + 81a^2b^6c^3g*h*mmz^3 + 648a^3b^3c^5e*j*kkz^3 + 648a^3b^3c^5 \\
& *d*j*1z^3 - 81a^2b^5c^4e*j*kkz^3 - 81a^2b^5c^4d*j*1z^3 + 2592a^3 \\
& *b^3c^5e*g*mmz^3 + 2592a^3b^3c^5d*h*mmz^3 - 1296a^3b^3c^5f*h*kkz^ \\
& 3 - 1296a^3b^3c^5f*g*1z^3 - 1296a^3b^3c^5e*h*1z^3 + 648a^3b^3c \\
& ^5g*h*jz^3 - 324a^2b^5c^4e*g*mmz^3 - 324a^2b^5c^4d*h*mmz^3 + 162* \\
& a^2b^5c^4f*h*kkz^3 + 162a^2b^5c^4f*g*1z^3 + 162a^2b^5c^4e*h*1z \\
& ^3 - 81a^2b^5c^4g*h*jz^3 + 5184a^3b^2c^6d*e*mmz^3 - 2592a^3b^2c \\
& ^6e*g*jz^3 - 2592a^3b^2c^6d*h*jz^3 - 2106a^2b^4c^5d*e*mmz^3 + 12 \\
& 96a^3b^2c^6e*f*kkz^3 + 1296a^3b^2c^6d*g*kkz^3 + 1296a^3b^2c^6d* \\
& f*1z^3 + 324a^2b^4c^5e*g*jz^3 + 324a^2b^4c^5d*h*jz^3 - 162a^2b \\
& ^4c^5e*f*kkz^3 - 162a^2b^4c^5d*g*kkz^3 - 162a^2b^4c^5d*f*1z^3 + \\
& 1296a^3b^2c^6f*g*h*z^3 - 162a^2b^4c^5f*g*h*z^3 + 1944a^2b^3c^6d \\
& *e*jz^3 - 1296a^2b^2c^7d*e*f*z^3 + 81a^2b^8c*k*1*mmz^3 + 6480a^5b \\
& *c^5*j*kk*1z^3 + 2592a^5b*c^5h*kk*mmz^3 + 2592a^5b*c^5g*1*mmz^3 - 1296 \\
& *a^4b*c^6e*j*kkz^3 - 1296a^4b*c^6d*j*1z^3 - 5184a^4b*c^6e*g*mmz^3 \\
& - 5184a^4b*c^6d*h*mmz^3 + 2592a^4b*c^6f*h*kkz^3 + 2592a^4b*c^6f*g* \\
& 1z^3 + 2592a^4b*c^6e*h*1z^3 - 1296a^4b*c^6g*h*jz^3 + 243a*b^6c^4 \\
& *d*e*mmz^3 - 3888a^3b*c^7d*e*jz^3 - 243a*b^5c^5d*e*jz^3 + 162a*b^4 \\
& *c^6d*e*f*z^3 - 2592a^6c^5k*1*mmz^3 - 5184a^5c^6h*j*kkz^3 - 5184a^5 \\
& *c^6g*j*1z^3 - 5184a^5c^6f*j*mmz^3 + 2592a^5c^6f*k*1z^3 + 2592a^5 \\
& *c^6e*kk*mmz^3 + 2592a^5c^6d*1*mmz^3 + 2592a^5c^6g*h*mmz^3 + 5184a^4 \\
& *c^7e*g*jz^3 + 5184a^4c^7d*h*jz^3 - 2592a^4c^7e*f*kkz^3 - 2592a^4 \\
& *c^7d*g*kkz^3 - 2592a^4c^7d*f*1z^3 - 2592a^4c^7d*e*mmz^3 - 2592a^4 \\
& *c^7f*g*h*z^3 + 2592a^3c^8d*e*f*z^3 + 6480a^5b^2c^4*j*m^2*z^3 + 6480 \\
& *a^4b^3c^4*j^2*mmz^3 - 5022a^4b^4c^3*j*m^2*z^3 - 1296a^3b^5c^3*j^2* \\
& mmz^3 + 1134a^3b^6c^2*j*m^2*z^3 + 81a^2b^7c^2*j^2*mmz^3 + 2592a^4b^ \\
& 3c^4h*1^2*z^3 - 1944a^4b^2c^5h^2*1z^3 - 810a^3b^5c^3h*1^2*z^3 + \\
& 729a^3b^4c^4h^2*1z^3 + 81a^2b^7c^2h*1^2*z^3 - 81a^2b^6c^3h^2*1 \\
& *z^3 - 5184a^4b^3c^4f*m^2*z^3 + 1620a^3b^5c^3f*m^2*z^3 + 1296a^3b \\
& ^3c^5f^2*mmz^3 - 162a^2b^7c^2f*m^2*z^3 - 162a^2b^5c^4f^2*mmz^3 - \\
& 1944a^4b^2c^5g*k^2*z^3 + 729a^3b^4c^4g*k^2*z^3 - 648a^3b^3c^5g^ \\
& 2*kz^3 - 81a^2b^6c^3g*k^2*z^3 + 81a^2b^5c^4g^2*kz^3 - 1944a^4b^ \\
& 2c^5e*1^2*z^3 + 729a^3b^4c^4e*1^2*z^3 + 648a^3b^2c^6e^2*1z^3 - 8 \\
& 1a^2b^6c^3e*1^2*z^3 - 81a^2b^4c^5e^2*1z^3 + 1296a^3b^3c^5f*f*j^2 \\
& *z^3 - 1296a^3b^2c^6f^2*jz^3 - 162a^2b^5c^4f*j^2*z^3 + 162a^2b^4 \\
& *c^5f^2*jz^3 - 648a^3b^3c^5d*k^2*z^3 + 81a^2b^5c^4d*k^2*z^3 + 648 \\
& *a^3b^2c^6e*h^2*z^3 - 81a^2b^4c^5e*h^2*z^3 - 648a^2b^2c^7d^2*g*z \\
& ^3 - 10368a^5b*c^5j^2*mmz^3 - 81a^2b^8c*j*m^2*z^3 - 2592a^5b*c^5h* \\
& 1^2*z^3 + 5184a^5b*c^5f*m^2*z^3 - 2592a^4b*c^6f^2*mmz^3 + 1296a^4b* \\
& c^6g^2*kz^3 - 2592a^4b*c^6f*j^2*z^3 + 1296a^4b*c^6d*k^2*z^3 + 81a* \\
& b^4c^6d^2*g*z^3 + 2592a^6c^5j*m^2*z^3 + 1296a^5c^6h^2*1z^3 + 1296* \\
& a^5c^6g*k^2*z^3 + 1296a^5c^6e*1^2*z^3 - 1296a^4c^7e^2*1z^3 + 2592* \\
& a^4c^7f^2*jz^3 - 2592a^6b*c^4m^3*z^3 - 324a^3b^7c*m^3*z^3 - 27a^2
\end{aligned}$$

$$\begin{aligned}
& *b^8*c^1^3*z^3 - 1296*a^4*c^7*e*h^2*z^3 - 864*a^5*b*c^5*k^3*z^3 + 1296*a^3* \\
& c^8*d^2*g*z^3 + 432*a^4*b*c^6*h^3*z^3 + 27*a*b^4*c^6*e^3*z^3 - 432*a^2*b*c^ \\
& 8*d^3*z^3 + 216*a*b^3*c^7*d^3*z^3 + 1134*a^4*b^5*c^2*m^3*z^3 - 432*a^5*b^3* \\
& c^3*m^3*z^3 + 1512*a^5*b^2*c^4*1^3*z^3 - 1107*a^4*b^4*c^3*1^3*z^3 + 297*a^3 \\
& *b^6*c^2*1^3*z^3 + 864*a^4*b^3*c^4*k^3*z^3 - 270*a^3*b^5*c^3*k^3*z^3 + 27*a \\
& ^2*b^7*c^2*k^3*z^3 - 2592*a^4*b^2*c^5*j^3*z^3 + 486*a^3*b^4*c^4*j^3*z^3 - 2 \\
& 7*a^2*b^6*c^3*j^3*z^3 - 216*a^3*b^3*c^5*h^3*z^3 + 27*a^2*b^5*c^4*h^3*z^3 + \\
& 216*a^3*b^2*c^6*g^3*z^3 - 27*a^2*b^4*c^5*g^3*z^3 - 216*a^2*b^2*c^7*e^3*z^3 \\
& - 432*a^6*c^5*1^3*z^3 + 27*a^2*b^9*m^3*z^3 + 4320*a^5*c^6*j^3*z^3 - 432*a^4 \\
& *c^7*g^3*z^3 + 432*a^3*c^8*e^3*z^3 - 27*b^5*c^6*d^3*z^3 + 81*a^3*b^6*c*j*k* \\
& l*m*z^2 - 1296*a^5*b*c^4*h*j*k*m*z^2 - 1296*a^5*b*c^4*g*j*l*m*z^2 + 1296*a^ \\
& 5*b*c^4*f*k*1*m*z^2 - 81*a^2*b^7*c*f*k*1*m*z^2 + 2592*a^4*b*c^5*e*g*j*m*z^2 \\
& + 2592*a^4*b*c^5*d*h*j*m*z^2 - 1296*a^4*b*c^5*f*h*j*k*z^2 - 1296*a^4*b*c^5 \\
& *f*g*j*1*z^2 - 1296*a^4*b*c^5*e*f*k*m*z^2 - 1296*a^4*b*c^5*d*f*1*m*z^2 - 64 \\
& 8*a^4*b*c^5*e*h*j*1*z^2 - 648*a^4*b*c^5*e*g*k*1*z^2 - 648*a^4*b*c^5*d*h*k*1 \\
& *z^2 - 648*a^4*b*c^5*d*g*k*m*z^2 - 1296*a^4*b*c^5*f*g*h*m*z^2 - 162*a*b^6*c \\
& ^3*d*e*j*m*z^2 + 81*a*b^6*c^3*d*e*k*1*z^2 + 1296*a^3*b*c^6*d*e*f*m*z^2 - 64 \\
& 8*a^3*b*c^6*d*f*g*k*z^2 - 648*a^3*b*c^6*d*e*h*k*z^2 - 648*a^3*b*c^6*d*e*g*1 \\
& *z^2 - 81*a*b^5*c^4*d*e*h*k*z^2 - 81*a*b^5*c^4*d*e*g*1*z^2 + 81*a*b^5*c^4*d \\
& *e*f*m*z^2 - 81*a*b^4*c^5*d*e*f*j*z^2 + 81*a*b^4*c^5*d*e*g*h*z^2 + 648*a^5* \\
& b^2*c^3*j*k*1*m*z^2 - 567*a^4*b^4*c^2*j*k*1*m*z^2 - 1944*a^4*b^3*c^3*f*k*1* \\
& m*z^2 + 729*a^3*b^5*c^2*f*k*1*m*z^2 + 648*a^4*b^3*c^3*h*j*k*m*z^2 + 648*a^4 \\
& *b^3*c^3*g*j*1*m*z^2 - 81*a^3*b^5*c^2*h*j*k*m*z^2 - 81*a^3*b^5*c^2*g*j*1*m* \\
& z^2 + 1944*a^4*b^2*c^4*f*j*k*1*z^2 - 729*a^3*b^4*c^3*f*j*k*1*z^2 + 648*a^4* \\
& b^2*c^4*e*j*k*m*z^2 + 648*a^4*b^2*c^4*d*j*1*m*z^2 - 81*a^3*b^4*c^3*e*j*k*m* \\
& z^2 - 81*a^3*b^4*c^3*d*j*1*m*z^2 + 81*a^2*b^6*c^2*f*j*k*1*z^2 + 1296*a^4*b^ \\
& 2*c^4*f*h*k*m*z^2 + 1296*a^4*b^2*c^4*f*g*1*m*z^2 + 648*a^4*b^2*c^4*g*h*j*m* \\
& z^2 - 648*a^3*b^4*c^3*f*h*k*m*z^2 - 648*a^3*b^4*c^3*f*g*1*m*z^2 - 324*a^4*b \\
& ^2*c^4*g*h*k*1*z^2 - 324*a^4*b^2*c^4*e*h*1*m*z^2 + 81*a^3*b^4*c^3*g*h*k*1*z \\
& ^2 - 81*a^3*b^4*c^3*g*h*j*m*z^2 + 81*a^2*b^6*c^2*f*h*k*m*z^2 + 81*a^2*b^6*c \\
& ^2*f*g*1*m*z^2 - 1296*a^3*b^3*c^4*e*g*j*m*z^2 - 1296*a^3*b^3*c^4*d*h*j*m*z^ \\
& 2 + 648*a^3*b^3*c^4*f*h*j*k*z^2 + 648*a^3*b^3*c^4*f*g*j*1*z^2 + 648*a^3*b^3 \\
& *c^4*e*f*k*m*z^2 + 648*a^3*b^3*c^4*d*f*1*m*z^2 + 486*a^3*b^3*c^4*e*g*k*1*z^ \\
& 2 + 486*a^3*b^3*c^4*d*h*k*1*z^2 + 162*a^3*b^3*c^4*e*h*j*1*z^2 + 162*a^3*b^3 \\
& *c^4*d*g*k*m*z^2 + 162*a^2*b^5*c^3*e*g*j*m*z^2 + 162*a^2*b^5*c^3*d*h*j*m*z^ \\
& 2 - 81*a^2*b^5*c^3*f*h*j*k*z^2 - 81*a^2*b^5*c^3*f*g*j*1*z^2 - 81*a^2*b^5*c^ \\
& 3*e*g*k*1*z^2 - 81*a^2*b^5*c^3*e*f*k*m*z^2 - 81*a^2*b^5*c^3*d*h*k*1*z^2 - 8 \\
& 1*a^2*b^5*c^3*d*f*1*m*z^2 + 648*a^3*b^3*c^4*f*g*h*m*z^2 - 81*a^2*b^5*c^3*f* \\
& g*h*m*z^2 - 3240*a^3*b^2*c^5*d*e*j*m*z^2 + 1620*a^3*b^2*c^5*d*e*k*1*z^2 + 1 \\
& 377*a^2*b^4*c^4*d*e*j*m*z^2 - 648*a^3*b^2*c^5*e*f*j*k*z^2 - 648*a^3*b^2*c^5 \\
& *d*f*j*1*z^2 - 648*a^2*b^4*c^4*d*e*k*1*z^2 - 324*a^3*b^2*c^5*d*g*j*k*z^2 + \\
& 81*a^2*b^4*c^4*e*f*j*k*z^2 + 81*a^2*b^4*c^4*d*f*j*1*z^2 + 972*a^3*b^2*c^5*e \\
& *f*h*1*z^2 - 648*a^3*b^2*c^5*f*g*h*j*z^2 - 324*a^3*b^2*c^5*e*g*h*k*z^2 - 32 \\
& 4*a^3*b^2*c^5*d*g*h*1*z^2 - 162*a^2*b^4*c^4*e*f*h*1*z^2 + 81*a^2*b^4*c^4*f* \\
& g*h*j*z^2 + 81*a^2*b^4*c^4*e*g*h*k*z^2 + 81*a^2*b^4*c^4*d*g*h*1*z^2 - 648*a
\end{aligned}$$

$$\begin{aligned}
& ^2b^3c^5d*ef*m*z^2 + 486*a^2b^3c^5d*eh*kk*z^2 + 486*a^2b^3c^5d*eg*l*z^2 + 162*a^2b^3c^5d*f*g*k*z^2 + 648*a^2b^2c^6d*ef*j*z^2 - 324*a^2b^2c^6d*eg*h*z^2 - 1296*a^6b*c^3*k*l*m^2*z^2 - 81*a^4b^5c*k*l*m^2*z^2 - 1296*a^5b*c^4*j^2*k*l*z^2 - 324*a^5b*c^4*h^2*l*m*z^2 + 324*a^5b*c^4*h*k^2*l*z^2 - 324*a^5b*c^4*g*k^2*m*z^2 + 972*a^5b*c^4*h*j*l^2*z^2 + 324*a^5b*c^4*g*k*l^2*z^2 - 324*a^5b*c^4*e*l^2*m*z^2 - 324*a^4b*c^5*e^2*l*m*z^2 - 1944*a^5b*c^4*f*j*m^2*z^2 + 1296*a^5b*c^4*e*k*m^2*z^2 + 1296*a^5b*c^4*d*l*m^2*z^2 + 648*a^4b*c^5*f^2*j*m*z^2 + 81*a^2b^7c*f*j*m^2*z^2 + 1296*a^5b*c^4*g*h*m^2*z^2 - 324*a^4b*c^5*g^2*j*k*z^2 + 324*a^4b*c^5*g^2*h*l*z^2 + 972*a^4b*c^5*f*h^2*l*z^2 + 324*a^4b*c^5*g*h^2*k*z^2 - 324*a^4b*c^5*e*h^2*m*z^2 - 324*a^4b*c^5*d*j*k^2*z^2 - 324*a^3b*c^6*d^2*j*k*z^2 + 972*a^4b*c^5*f*g*k^2*z^2 + 972*a^3b*c^6*d^2*g*m*z^2 + 324*a^4b*c^5*e*h*k^2*z^2 + 324*a^3b*c^6*d^2*h*l*z^2 + 81*a*b^5c^4*d^2*g*m*z^2 + 972*a^4b*c^5*e*f*l^2*z^2 + 324*a^4b*c^5*d*g*l^2*z^2 - 324*a^3b*c^6*e^2*h*j*z^2 + 324*a^3b*c^6*e^2*g*k*z^2 - 324*a^3b*c^6*e^2*f*l*z^2 - 1296*a^4b*c^5*d*e*m^2*z^2 + 81*a*b^7c^2*d*e*m^2*z^2 - 324*a^3b*c^6*d*g^2*j*z^2 - 81*a*b^4c^5*d^2*g*j*z^2 + 81*a*b^4c^5*d^2*e*l*z^2 + 324*a^3b*c^6*e*g^2*h*z^2 + 81*a*b^4c^5*d*e^2*k*z^2 + 1296*a^3b*c^6*d*e*j^2*z^2 - 324*a^3b*c^6*e*f*h^2*z^2 + 324*a^3b*c^6*d*g*h^2*z^2 + 81*a*b^5c^4*d*e*j^2*z^2 - 324*a^2b*c^7*d^2*f*g*z^2 + 324*a^2b*c^7*d^2*e*h*z^2 + 81*a*b^3c^6*d^2*f*g*z^2 - 81*a*b^3c^6*d^2*e*h*z^2 + 324*a^2b*c^7*d*e^2*g*z^2 - 81*a*b^3c^6*d*e^2*g*z^2 + 1296*a^6c^4*j*k*l*m*z^2 - 1296*a^5c^5*f*j*k*l*z^2 - 1296*a^5c^5*e*j*k*m*z^2 - 1296*a^5c^5*d*j*l*m*z^2 - 1296*a^5c^5*g*h*j*m*z^2 + 1296*a^5c^5*e*h*l*m*z^2 + 1296*a^4c^6*e*f*j*k*z^2 + 1296*a^4c^6*d*g*j*k*z^2 + 1296*a^4c^6*d*f*j*l*z^2 - 1296*a^4c^6*d*e*k*l*z^2 + 1296*a^4c^6*d*e*j*m*z^2 + 1296*a^4c^6*f*g*h*j*z^2 - 1296*a^4c^6*e*f*h*l*z^2 - 1296*a^3c^7*d*e*f*j*z^2 + 648*a^5b^3c^2*k*l*m^2*z^2 + 648*a^4b^3c^3*j^2*k*l*z^2 + 486*a^5b^2c^3*h*l^2*m*z^2 - 81*a^4b^4c^2*h*l^2*m*z^2 + 81*a^4b^3c^3*h^2*l*m*z^2 - 81*a^3b^5c^2*j^2*k*l*z^2 - 162*a^4b^2c^4*g^2*k*m*z^2 - 81*a^4b^3c^3*h*k^2*l*z^2 + 81*a^4b^3c^3*g*k^2*m*z^2 - 567*a^4b^3c^3*h*j*l^2*z^2 + 486*a^4b^2c^4*h^2*j*l*z^2 - 81*a^4b^3c^3*g*k*l^2*z^2 + 81*a^4b^3c^3*e*l^2*m*z^2 + 81*a^3b^5c^2*h*j*l^2*z^2 - 81*a^3b^4c^3*h^2*j*l*z^2 + 81*a^3b^3c^4*e^2*l*m*z^2 + 2430*a^4b^3c^3*f*j*m^2*z^2 - 2268*a^4b^2c^4*f*j^2*m*z^2 - 810*a^3b^5c^2*f*j*m^2*z^2 + 810*a^3b^4c^3*f*j^2*m*z^2 - 648*a^4b^3c^3*e*k*m^2*z^2 - 648*a^4b^3c^3*d*l*m^2*z^2 - 648*a^4b^2c^4*h*j^2*k*z^2 - 648*a^4b^2c^4*g*j^2*l*z^2 - 162*a^3b^3c^4*f^2*j*m*z^2 + 81*a^3b^5c^2*e*k*m^2*z^2 + 81*a^3b^5c^2*d*l*m^2*z^2 + 81*a^3b^4c^3*h*j^2*k*z^2 + 81*a^3b^4c^3*g*j^2*l*z^2 - 81*a^2b^6c^2*f*j^2*m*z^2 - 648*a^4b^3c^3*g*h*m^2*z^2 + 486*a^4b^2c^4*g*j*k^2*z^2 - 486*a^4b^2c^4*e*k^2*l*z^2 + 486*a^3b^2c^5*d^2*k*m*z^2 - 162*a^4b^2c^4*d*k^2*m*z^2 + 81*a^3b^5c^2*g*h*m^2*z^2 - 81*a^3b^4c^3*g*j*k^2*z^2 + 81*a^3b^4c^3*e*k^2*l*z^2 + 81*a^3b^3c^4*g^2*j*k*z^2 - 81*a^2b^4c^4*d^2*k*m*z^2 + 486*a^4b^2c^4*e*j*l^2*z^2 - 486*a^4b^2c^4*d*k*l^2*z^2 - 162*a^3b^2c^5*e^2*j*l*z^2 - 81*a^3b^4c^3*e*j*l^2*z^2 + 81*a^3b^4c^3*d*k*l^2*z^2 - 81*a^3b^3c^4*g^2*h*l*z^2 - 1458*a^4b^2c^4*f*h*l^2*z^2 + 648*a^3b^4c^3*f*h*l^2*z^2 - 567*a
\end{aligned}$$

$$\begin{aligned}
&^3b^3c^4f^2h^2l^2z^2 + 486a^3b^2c^5e^2h^2m^2z^2 - 81a^3b^3c^4g^2h^2 \\
&*k^2z^2 + 81a^3b^3c^4e^2h^2m^2z^2 - 81a^2b^6c^2f^2h^2l^2z^2 + 81a^2b \\
&^5c^3f^2h^2l^2z^2 - 81a^2b^4c^4e^2h^2m^2z^2 - 1296a^4b^2c^4e^2g^2m^2z \\
&^2 - 1296a^4b^2c^4d^2h^2m^2z^2 + 648a^3b^4c^3e^2g^2m^2z^2 + 648a^3b \\
&^4c^3d^2h^2m^2z^2 + 81a^3b^3c^4d^2j^2k^2z^2 - 81a^2b^6c^2e^2g^2m^2z \\
&^2 - 81a^2b^6c^2d^2h^2m^2z^2 + 81a^2b^3c^5d^2j^2k^2z^2 - 567a^3b^3c \\
&^4f^2g^2k^2z^2 - 567a^2b^3c^5d^2g^2m^2z^2 + 486a^3b^2c^5f^2g^2k^2z^2 \\
&- 486a^3b^2c^5e^2g^2l^2z^2 + 486a^3b^2c^5d^2g^2m^2z^2 - 81a^3b^3c \\
&^4e^2h^2k^2z^2 + 81a^2b^5c^3f^2g^2k^2z^2 - 81a^2b^4c^4f^2g^2k^2z^2 + \\
&81a^2b^4c^4e^2g^2l^2z^2 - 81a^2b^4c^4d^2g^2m^2z^2 - 81a^2b^3c^5d^2 \\
&^2h^2l^2z^2 - 567a^3b^3c^4e^2f^2l^2z^2 - 486a^3b^2c^5d^2h^2k^2z^2 - 162 \\
&a^3b^2c^5e^2h^2j^2z^2 - 81a^3b^3c^4d^2g^2l^2z^2 + 81a^2b^5c^3e^2f^2 \\
&l^2z^2 + 81a^2b^4c^4d^2h^2k^2z^2 + 81a^2b^3c^5e^2h^2j^2z^2 - 81a^2b \\
&^3c^5e^2g^2k^2z^2 + 81a^2b^3c^5e^2f^2l^2z^2 + 1944a^3b^3c^4d^2e^2m^2 \\
&^2z^2 - 729a^2b^5c^3d^2e^2m^2z^2 + 648a^3b^2c^5e^2g^2j^2z^2 + 648a^3b \\
&^2c^5d^2h^2j^2z^2 - 81a^2b^4c^4e^2g^2j^2z^2 - 81a^2b^4c^4d^2h^2j^2z \\
&^2 + 486a^3b^2c^5d^2f^2k^2z^2 + 486a^2b^2c^6d^2g^2j^2z^2 - 486a^2b^2 \\
&^2c^6d^2e^2l^2z^2 - 162a^2b^2c^6d^2f^2k^2z^2 - 81a^2b^4c^4d^2f^2k^2z^2 \\
&^2 + 81a^2b^3c^5d^2g^2j^2z^2 - 486a^2b^2c^6d^2e^2k^2z^2 - 81a^2b^3c \\
&^5e^2g^2h^2z^2 - 648a^2b^3c^5d^2e^2j^2z^2 - 162a^2b^2c^6e^2f^2h^2z^2 \\
&+ 81a^2b^3c^5e^2f^2h^2z^2 - 81a^2b^3c^5d^2g^2h^2z^2 - 162a^2b^2c^6 \\
&d^2f^2g^2z^2 - 189a^5b^3c^2l^3m^2z^2 + 162a^5b^2c^3k^3m^2z^2 - 27a \\
&^4b^4c^2k^3m^2z^2 - 702a^4b^3c^3j^3m^2z^2 - 81a^3b^6c^2j^2m^2z^2 \\
&+ 81a^3b^5c^2j^3m^2z^2 - 54a^5b^3c^2j^2m^3z^2 - 486a^5b^2c^3j^2 \\
&l^3z^2 + 216a^4b^4c^2j^2l^3z^2 - 189a^4b^3c^3j^2k^3z^2 - 54a^4b^2 \\
&c^4h^3m^2z^2 + 27a^3b^5c^2j^2k^3z^2 + 27a^3b^3c^4g^3m^2z^2 - 810 \\
&a^4b^4c^2f^2m^3z^2 + 540a^5b^2c^3f^2m^3z^2 - 324a^3b^2c^5f^3m^2 \\
&z^2 + 54a^2b^4c^4f^3m^2z^2 + 675a^4b^3c^3f^2l^3z^2 - 243a^3b^5c^2 \\
&^2f^2l^3z^2 - 189a^2b^3c^5e^3m^2z^2 + 27a^3b^3c^4h^3j^2z^2 - 486a^4 \\
&b^2c^4f^2k^3z^2 - 486a^2b^2c^6d^3m^2z^2 + 216a^3b^4c^3f^2k^3z^2 \\
&- 54a^3b^2c^5g^3j^2z^2 - 27a^2b^6c^2f^2k^3z^2 - 270a^3b^3c^4f^2 \\
&j^3z^2 - 54a^2b^3c^5f^3j^2z^2 + 27a^2b^5c^3f^2j^3z^2 + 162a^2b^2 \\
&c^6e^3j^2z^2 + 162a^3b^2c^5f^2h^3z^2 - 27a^2b^4c^4f^2h^3z^2 + 27a \\
&^2b^3c^5f^2g^3z^2 + 81a^2b^2c^7d^2e^2z^2 - 648a^6c^4h^2l^2m^2z^2 \\
&+ 648a^5c^5g^2k^2m^2z^2 - 648a^5c^5h^2j^2l^2z^2 + 1296a^5c^5h^2j^2k^2 \\
&z^2 + 1296a^5c^5g^2j^2l^2z^2 + 1296a^5c^5f^2j^2m^2z^2 - 648a^5c^5g^2j \\
&^2k^2z^2 + 648a^5c^5e^2k^2l^2z^2 + 648a^5c^5d^2k^2m^2z^2 - 648a^4c^6 \\
&d^2k^2m^2z^2 - 648a^5c^5e^2j^2l^2z^2 + 648a^5c^5d^2k^2l^2z^2 + 648a^4c \\
&^6e^2j^2l^2z^2 + 324a^6b^2c^3l^3m^2z^2 + 27a^4b^5c^3l^3m^2z^2 + 648a^5 \\
&c^5f^2h^2l^2z^2 - 648a^4c^6e^2h^2m^2z^2 + 1512a^5b^2c^4j^3m^2z^2 + 108 \\
&0a^6b^2c^3j^2m^3z^2 - 162a^4b^5c^2j^2m^3z^2 - 648a^4c^6f^2g^2k^2z^2 + \\
&648a^4c^6e^2g^2l^2z^2 - 648a^4c^6d^2g^2m^2z^2 - 27a^3b^6c^2j^2l^3z^2 \\
&+ 648a^4c^6e^2h^2j^2z^2 + 648a^4c^6d^2h^2k^2z^2 + 324a^5b^2c^4j^2k^3 \\
&z^2 - 1296a^4c^6e^2g^2j^2z^2 - 1296a^4c^6d^2h^2j^2z^2 - 108a^4b^2c^5g \\
&^3m^2z^2 - 648a^4c^6d^2f^2k^2z^2 - 648a^3c^7d^2g^2j^2z^2 + 648a^3c^7*
\end{aligned}$$

$$\begin{aligned}
& b^4c^3d*eg*lmz + 108a^3b^2c^4*eg*h*j*kmz - 108a^3b^2c^4*ef*h*j \\
& *l*z + 108a^3b^2c^4*d*g*h*j*lmz + 108a^3b^2c^4*d*f*g*k*mmz - 27a^2b \\
& ^4c^3*eg*h*j*kmz - 27a^2b^4c^3*d*g*h*j*lmz - 162a^2b^3c^4*d*ef*h*j*km \\
& *z - 162a^2b^3c^4*d*eg*j*lmz + 54a^2b^3c^4*d*ef*j*mmz - 108a^2b^3 \\
& *c^4*d*eg*h*mmz + 108a^2b^2c^5*d*eg*h*j*z + 324a^6b*c^2*j*k*lm^2*z \\
& - 81a^5b^3c*j*k*lm^2*z + 27a^4b^4c*j^2*k*lmz - 27a^4b^4c*h*k^2* \\
& l*mmz - 27a^4b^4c*g*k*lm^2*mmz + 216a^5b*c^3*h*j^2*k*mmz + 216a^5b*c^ \\
& 3*g*j^2*lmz + 54a^4b^4c*f*k*lm^2*z + 27a^4b^4c*h*j*k*mm^2*z + 27a^ \\
& 4b^4c*g*j*lm^2*z + 27a^2b^6c*f^2*k*lmz + 216a^5b*c^3*ek^2*lmz - \\
& 108a^5b*c^3*h*j*k^2*lmz + 27a^3b^5c*ek^2*lmz + 216a^5b*c^3*d*k* \\
& l^2*mmz + 216a^4b*c^4*ej*lmz - 108a^5b*c^3*g*j*k*lm^2*z + 27a^3b^ \\
& 5c*d*k*lm^2*mmz - 324a^5b*c^3*ej*k*mm^2*z - 324a^5b*c^3*d*j*lm^2*z - 2 \\
& 16a^5b*c^3*f*h*lm^2*mmz - 108a^4b*c^4*f^2*j*k*lmz - 27a^3b^5c*ej*k*mm \\
& ^2*z - 27a^3b^5c*d*j*lm^2*z - 324a^5b*c^3*g*h*j*mm^2*z + 216a^5b*c^3 \\
& *f*h*k*mm^2*z + 216a^5b*c^3*f*g*lm^2*z + 216a^5b*c^3*eh*lm^2*z - 216* \\
& a^4b*c^4*f^2*h*k*mmz - 216a^4b*c^4*f^2*g*lmz - 27a^3b^5c*g*h*j*mm^2* \\
& z + 216a^4b*c^4*eg^2*lmz - 108a^4b*c^4*g^2*h*j*lmz - 216a^4b*c^4*f \\
& *h^2*j*lmz + 216a^4b*c^4*eh^2*j*mmz + 216a^4b*c^4*d*h^2*k*mmz - 108a^ \\
& 4b*c^4*g*h^2*j*kz - 432a^4b*c^4*eg*j^2*mmz - 432a^4b*c^4*d*h*j^2*mmz \\
& + 216a^4b*c^4*f*h*j^2*kz + 216a^4b*c^4*f*g*j^2*lmz + 27a^2b^6c*eg \\
& *j*mm^2*z + 27a^2b^6c*d*h*j*mm^2*z - 432a^3b*c^5*d^2*g*j*mmz - 216a^4b \\
& *c^4*f*g*j*k^2*z + 216a^3b*c^5*d^2*f*k*mmz + 216a^3b*c^5*d^2*e*lmz - \\
& 108a^4b*c^4*eh*j*k^2*z - 108a^4b*c^4*d*g*k^2*lmz - 108a^3b*c^5*d^2*h \\
& *j*lmz + 108a^3b*c^5*d^2*g*k*lmz - 54a*b^5c^3*d^2*g*j*mmz + 27a*b^5c^ \\
& 3*d^2*g*k*lmz + 27a*b^5c^3*d^2*e*lmz - 216a^4b*c^4*ef*j*lm^2*z + 216* \\
& a^3b*c^5*d*ej*mmz - 108a^4b*c^4*eg*h*lm^2*z + 108a^3b*c^5*e^2*g*j*k \\
& *z + 27a*b^5c^3*d*ej*mmz + 324a^4b*c^4*d*ej*mm^2*z + 216a^3b*c^5*e \\
& ^2*f*h*mmz - 108a^4b*c^4*eg*h*lm^2*z + 108a^3b*c^5*e^2*g*h*lmz + 108a^ \\
& 3b*c^5*ef^2*j*kz + 108a^3b*c^5*d*f^2*j*lmz + 27a*b^6c^2*d*ej^2*mmz \\
& - 216a^3b*c^5*ef^2*h*lmz + 108a^3b*c^5*f^2*g*h*j*z - 27a*b^4c^4*d^2* \\
& e*j*lmz + 216a^3b*c^5*d*f*g^2*mmz - 108a^3b*c^5*eg^2*h*j*z + 54a*b^4* \\
& c^4*d^2*f*g*mmz - 27a*b^4c^4*d^2*g*h*kz - 27a*b^4c^4*d^2*eh*mmz - 27* \\
& a*b^4c^4*d*ej*kz - 108a^3b*c^5*d*g*h^2*j*z + 54a*b^4c^4*d*ej^2*h*lmz \\
& + 27a*b^6c^2*d*eh*lm^2*z - 27a*b^5c^3*d*eh^2*lmz - 27a*b^4c^4*d*ej^ \\
& 2*g*mmz - 27a*b^4c^4*d*ef^2*mmz + 216a^2b*c^6*d^2*f*g*j*z - 108a^3b* \\
& c^5*d*eg*k^2*z - 108a^2b*c^6*d^2*eh*j*z + 108a^2b*c^6*d^2*eg*kz - 5 \\
& 4a*b^3c^5*d^2*f*g*j*z - 27a*b^5c^3*d*eg*k^2*z + 27a*b^4c^4*d*eg^2*k \\
& *z + 27a*b^3c^5*d^2*eh*j*z - 27a*b^3c^5*d^2*eg*kz - 108a^2b*c^6*d* \\
& e^2*g*j*z + 27a*b^3c^5*d*ej^2*g*j*z - 108a^2b*c^6*d*ef^2*j*z + 27a*b^3 \\
& *c^5*d*ef^2*j*z - 432a^5c^4*eh*j*lmz + 432a^4c^5*d*ej*k*lmz + 432* \\
& a^4c^5*ef*h*j*lmz - 432a^4c^5*d*f*g*k*mmz - 27a*b^7c*d*ej*mm^2*z - 54 \\
& *a^5b^2c^2*j^2*k*lmz + 108a^5b^2c^2*h*k^2*lmz + 108a^5b^2c^2*g* \\
& k*lm^2*mmz - 54a^5b^2c^2*h*j*lm^2*mmz + 378a^4b^2c^3*f^2*k*lmz - 270* \\
& a^5b^2c^2*f*k*lm^2*z - 189a^3b^4c^2*f^2*k*lmz - 108a^5b^2c^2*h*j \\
& *k*mm^2*z - 108a^5b^2c^2*g*j*lm^2*z - 54a^4b^3c^2*h*j^2*k*mmz - 54a^
\end{aligned}$$

$$\begin{aligned}
& 4*b^3*c^2*g*j^2*l*m*z - 162*a^4*b^3*c^2*e*k^2*l*m*z + 54*a^4*b^2*c^3*g^2*j* \\
& k*m*z + 27*a^4*b^3*c^2*h*j*k^2*l*z - 162*a^4*b^3*c^2*d*k*l^2*m*z + 108*a^4* \\
& b^2*c^3*g^2*h*l*m*z - 54*a^3*b^3*c^3*e^2*j*l*m*z + 27*a^4*b^3*c^2*g*j*k*l^2 \\
& *z - 27*a^3*b^4*c^2*g^2*h*l*m*z - 270*a^4*b^2*c^3*f*j^2*k*l*z + 189*a^4*b^3 \\
& *c^2*e*j*k*m^2*z + 189*a^4*b^3*c^2*d*j*l*m^2*z - 162*a^4*b^2*c^3*e*j^2*k*m* \\
& z - 162*a^4*b^2*c^3*d*j^2*l*m*z + 135*a^3*b^3*c^3*f^2*j*k*l*z + 108*a^4*b^2 \\
& *c^3*g*h^2*k*m*z + 54*a^4*b^3*c^2*f*h*l^2*m*z - 54*a^4*b^2*c^3*f*h^2*l*m*z \\
& + 54*a^3*b^4*c^2*f*j^2*k*l*z - 27*a^3*b^4*c^2*g*h^2*k*m*z + 27*a^3*b^4*c^2* \\
& e*j^2*k*m*z + 27*a^3*b^4*c^2*d*j^2*l*m*z - 27*a^2*b^5*c^2*f^2*j*k*l*z - 270 \\
& *a^3*b^2*c^4*d^2*j*k*m*z + 189*a^4*b^3*c^2*g*h*j*m^2*z - 162*a^4*b^2*c^3*g* \\
& h*j^2*m*z + 162*a^4*b^2*c^3*e*j*k^2*l*z + 162*a^3*b^3*c^3*f^2*h*k*m*z + 162 \\
& *a^3*b^3*c^3*f^2*g*l*m*z - 54*a^4*b^3*c^2*f*h*k*m^2*z - 54*a^4*b^3*c^2*f*g* \\
& l*m^2*z - 54*a^4*b^3*c^2*e*h*l*m^2*z + 54*a^4*b^2*c^3*d*j*k^2*m*z + 54*a^2* \\
& b^4*c^3*d^2*j*k*m*z + 27*a^3*b^4*c^2*g*h*j^2*m*z - 27*a^3*b^4*c^2*e*j*k^2*l \\
& *z - 27*a^2*b^5*c^2*f^2*h*k*m*z - 27*a^2*b^5*c^2*f^2*g*l*m*z + 162*a^4*b^2* \\
& c^3*d*j*k*l^2*z - 162*a^3*b^3*c^3*e*g^2*l*m*z + 108*a^4*b^2*c^3*e*h*k^2*m*z \\
& + 108*a^3*b^2*c^4*d^2*h*l*m*z - 54*a^4*b^2*c^3*f*g*k^2*m*z - 27*a^3*b^4*c^ \\
& 2*e*h*k^2*m*z - 27*a^3*b^4*c^2*d*j*k*l^2*z + 27*a^3*b^3*c^3*g^2*h*j*l*z + 2 \\
& 7*a^2*b^5*c^2*e*g^2*l*m*z - 27*a^2*b^4*c^3*d^2*h*l*m*z + 270*a^4*b^2*c^3*f* \\
& h*j*l^2*z - 270*a^3*b^2*c^4*e^2*h*j*m*z - 162*a^4*b^2*c^3*e*h*k*l^2*z - 162 \\
& *a^3*b^3*c^3*d*h^2*k*m*z + 162*a^3*b^2*c^4*e^2*h*k*l*z + 108*a^4*b^2*c^3*d* \\
& g*l^2*m*z + 108*a^3*b^2*c^4*e^2*g*k*m*z - 54*a^4*b^2*c^3*e*f*l^2*m*z - 54*a \\
& ^3*b^4*c^2*f*h*j*l^2*z + 54*a^3*b^3*c^3*f*h^2*j*l*z - 54*a^3*b^3*c^3*e*h^2* \\
& j*m*z + 54*a^3*b^2*c^4*e^2*f*l*m*z + 54*a^2*b^4*c^3*e^2*h*j*m*z + 27*a^3*b^ \\
& 4*c^2*e*h*k*l^2*z - 27*a^3*b^4*c^2*d*g*l^2*m*z + 27*a^3*b^3*c^3*g*h^2*j*k*z \\
& + 27*a^2*b^5*c^2*d*h^2*k*m*z - 27*a^2*b^4*c^3*e^2*h*k*l*z - 27*a^2*b^4*c^3 \\
& *e^2*g*k*m*z + 432*a^4*b^2*c^3*e*g*j*m^2*z + 432*a^4*b^2*c^3*d*h*j*m^2*z - \\
& 270*a^4*b^2*c^3*d*g*k*m^2*z - 216*a^3*b^4*c^2*e*g*j*m^2*z - 216*a^3*b^4*c^2 \\
& *d*h*j*m^2*z + 216*a^3*b^3*c^3*e*g*j^2*m*z + 216*a^3*b^3*c^3*d*h*j^2*m*z - \\
& 162*a^3*b^2*c^4*e*f^2*k*m*z - 162*a^3*b^2*c^4*d*f^2*l*m*z - 108*a^3*b^2*c^4 \\
& *f^2*h*j*k*z - 108*a^3*b^2*c^4*f^2*g*j*l*z + 54*a^4*b^2*c^3*e*f*k*m^2*z + 5 \\
& 4*a^4*b^2*c^3*d*f*l*m^2*z + 54*a^3*b^4*c^2*d*g*k*m^2*z - 54*a^3*b^3*c^3*f*h \\
& *j^2*k*z - 54*a^3*b^3*c^3*f*g*j^2*l*z - 27*a^2*b^5*c^2*e*g*j^2*m*z - 27*a^2 \\
& *b^5*c^2*d*h*j^2*m*z + 27*a^2*b^4*c^3*f^2*h*j*k*z + 27*a^2*b^4*c^3*f^2*g*j* \\
& l*z + 27*a^2*b^4*c^3*e*f^2*k*m*z + 27*a^2*b^4*c^3*d*f^2*l*m*z + 324*a^2*b^3 \\
& *c^4*d^2*g*j*m*z - 270*a^3*b^2*c^4*d*g^2*j*m*z - 162*a^3*b^2*c^4*f^2*g*h*m* \\
& z + 162*a^3*b^2*c^4*e*g^2*j*l*z - 162*a^2*b^3*c^4*d^2*e*l*m*z - 135*a^2*b^3 \\
& *c^4*d^2*g*k*l*z + 108*a^3*b^2*c^4*d*g^2*k*l*z + 54*a^4*b^2*c^3*f*g*h*m^2*z \\
& + 54*a^3*b^3*c^3*f*g*j*k^2*z - 54*a^3*b^2*c^4*f*g^2*j*k*z + 54*a^2*b^4*c^3 \\
& *d*g^2*j*m*z - 54*a^2*b^3*c^4*d^2*f*k*m*z + 27*a^3*b^3*c^3*e*h*j*k^2*z + 27 \\
& *a^3*b^3*c^3*d*g*k^2*l*z + 27*a^2*b^4*c^3*f^2*g*h*m*z - 27*a^2*b^4*c^3*e*g^ \\
& 2*j*l*z - 27*a^2*b^4*c^3*d*g^2*k*l*z + 27*a^2*b^3*c^4*d^2*h*j*l*z + 162*a^3 \\
& *b^2*c^4*d*h^2*j*k*z - 162*a^2*b^3*c^4*d*e^2*k*m*z + 108*a^3*b^2*c^4*e*g^2* \\
& h*m*z + 54*a^3*b^3*c^3*e*f*j*l^2*z + 27*a^3*b^3*c^3*d*g*j*l^2*z - 27*a^2*b^ \\
& 4*c^3*e*g^2*h*m*z - 27*a^2*b^4*c^3*d*h^2*j*k*z + 27*a^2*b^3*c^4*e^2*g*j*k*z
\end{aligned}$$

$$\begin{aligned}
& - 621a^3b^3c^3d^3e^3j^3m^2z + 594a^3b^2c^4d^3e^3j^2m^2z + 243a^2b^5c^2d^3e^3j^3m^2z - 243a^2b^4c^3d^3e^3j^2m^2z + 135a^3b^3c^3e^3g^3h^1^2z \\
& - 108a^3b^2c^4e^3g^3h^2^1z + 108a^3b^2c^4d^3g^3h^2^1m^2z + 54a^3b^2c^4e^3f^3j^2k^2z + 54a^3b^2c^4e^3f^3h^2^1m^2z + 54a^3b^2c^4d^3g^3j^2k^2z + \\
& 54a^3b^2c^4d^3f^3j^2k^2z - 54a^2b^3c^4e^2f^3h^2^1m^2z - 27a^2b^5c^2e^3g^3h^1^2z + 27a^2b^4c^3e^3g^3h^2^1z - 27a^2b^4c^3d^3g^3h^2^1m^2z - 27a^2b^3c^4e^2g^3h^1z \\
& - 27a^2b^3c^4e^2f^3j^2k^2z - 27a^2b^3c^4d^3f^2j^2k^2z + 162a^2b^2c^5d^2e^3j^2k^2z + 54a^3b^2c^4f^3g^3h^2^1j^2z - 54a^3b^2c^4d^3f^3j^2k^2z + 54a^2b^3c^4e^2f^3h^1z \\
& + 54a^2b^2c^5d^2f^3j^2k^2z - 27a^2b^3c^4f^2g^3h^2^1j^2z - 270a^2b^2c^5d^2f^3g^3m^2z - 162a^3b^2c^4d^3g^3h^2^1k^2z + 162a^2b^2c^5d^2g^3h^2^1k^2z + 162a^2b^2c^5d^2e^2j^2k^2z \\
& + 108a^2b^2c^5d^2e^3h^2^1m^2z - 54a^2b^3c^4d^3f^3g^2^1m^2z + 27a^2b^4c^3d^3g^3h^2^1k^2z + 27a^2b^3c^4e^3g^2^1h^2^1j^2z + 270a^3b^2c^4d^3e^3h^1^2z - 270a^2b^2c^5d^2e^2h^1z \\
& - 162a^2b^4c^3d^3e^3h^1^2z + 108a^2b^3c^4d^3e^3h^2^1z + 108a^2b^2c^5d^2e^2g^3m^2z + 54a^2b^2c^5e^2f^3h^2^1j^2z + 27a^2b^3c^4d^3g^3h^2^1j^2z + 162a^2b^2c^5d^2e^2f^2m^2z \\
& - 54a^3b^2c^4d^3e^2f^2m^2z - 54a^2b^2c^5d^2f^2g^3k^2z + 135a^2b^3c^4d^3e^3g^3k^2z - 108a^2b^2c^5d^2e^3g^2^1k^2z + 54a^2b^2c^5d^2f^3g^2^1j^2z - 54a^2b^2c^5d^2e^2f^3j^2z \\
& - 9a^3b^7c^3d^3e^3l^3z - 36a^3b^7c^3d^3e^3g^3z - 108a^6b^3c^2k^2^1^2m^2z + 27a^5b^3c^3k^2^1^2m^2z - 18a^5b^2c^2j^2k^3^1m^2z - 27a^4b^3c^2j^3k^1z \\
& - 108a^5b^3c^3h^2^1k^2^1m^2z - 108a^5b^3c^3g^2^1k^2^1m^2z + 108a^5b^3c^3h^2^1k^1^2z + 108a^5b^3c^3g^2^1k^1^2m^2z + 90a^5b^2c^2f^3^1^3m^2z - 18a^5b^2c^2h^3k^1^3z \\
& + 18a^4b^2c^3h^3k^1z + 18a^4b^2c^3h^3j^3m^2z - 108a^5b^3c^3h^2^1j^2^1z + 18a^4b^3c^2f^3k^3^1m^2z - 18a^3b^3c^3g^3j^3m^2z - 9a^4b^3c^2g^3k^3^1z + 9a^3b^3c^3g^3k^1z \\
& + 252a^4b^2c^3f^3j^3m^2z + 216a^5b^3c^3f^3j^2m^2z + 180a^3b^2c^4f^3j^3m^2z - 108a^4b^3c^4e^2k^2^1m^2z - 108a^4b^3c^4d^2^1^2m^2z + 90a^5b^2c^2e^3k^3m^3z \\
& + 90a^5b^2c^2d^3l^3m^3z - 90a^3b^2c^4f^3k^1z + 54a^3b^5c^3f^3j^2m^2z - 54a^3b^4c^2f^3j^3m^2z + 36a^5b^2c^2f^3j^3m^3z + 36a^4b^2c^3h^3j^3k^2z \\
& + 36a^4b^2c^3g^3j^3^1z - 36a^2b^4c^3f^3j^3m^2z - 27a^2b^6c^3f^2j^3m^2z + 18a^2b^4c^3f^3k^1z - 216a^4b^3c^4d^2^1k^3m^2z + 108a^5b^3c^3d^3k^2^1m^2z - 108a^4b^3c^2f^3j^1^3z \\
& - 108a^4b^3c^4g^2^1h^2^1m^2z + 108a^2b^3c^4e^3j^3m^2z + 90a^5b^2c^2g^3h^3m^3z + 54a^4b^3c^2e^3k^1^3z - 54a^2b^3c^4e^3k^1z + 234a^2b^2c^5d^3j^3m^2z \\
& - 144a^2b^2c^5d^3k^1z + 90a^4b^2c^3f^3j^3k^3z - 72a^4b^2c^3d^3k^3^1z + 27a^4b^3c^2g^3h^1^3z - 27a^3b^3c^3g^3h^3^1z - 18a^3b^4c^2f^3j^3k^3z \\
& + 9a^3b^4c^2d^3k^3^1z + 216a^4b^3c^4f^2^1h^1^2z - 216a^4b^3c^4e^2h^3m^2z + 108a^4b^3c^4g^2^1h^3k^2z - 18a^4b^2c^3g^3h^3k^3z + 18a^3b^2c^4g^3h^3k^2z \\
& + 18a^3b^2c^4f^3g^3m^2z + 9a^3b^4c^2g^3h^3k^3z - 9a^3b^3c^3e^3j^3k^2z - 9a^3b^3c^3d^3j^3^1z - 144a^4b^3c^2e^3g^3m^3z - 144a^4b^3c^2d^3h^3m^3z - 108a^3b^3c^5e^2g^2^1m^2z \\
& + 108a^3b^3c^5d^2j^2k^2z - 108a^3b^3c^5d^2h^2^1m^2z - 18a^2b^3c^4f^3h^3k^2z - 18a^2b^3c^4f^3g^3^1z - 9a^3b^3c^3g^3h^3j^3z - 216a^4b^3c^4d^3g^2^1m^2z \\
& + 144a^4b^2c^3e^3g^3^1z - 126a^3b^2c^4d^3h^3^1z - 108a^4b^3c^4d^3h^2^1z - 108a^3b^3c^5f^2g^2^1k^2z - 108a^3b^3c^5e^2h^2^1k^2z - 90a^3b^3c^5e^2h^2^1k^2z - 90a^3b^3c^5e^2h^2^1k^2z - 90a^3b^3c^5e^2h^2^1k^2z
\end{aligned}$$

$$\begin{aligned}
& a^2b^2c^5e^3f^*m^*z + 72a^2b^2c^5e^3g^*l^*z - 63a^3b^4c^2e^*g^*l^3z \\
& - 36a^3b^4c^2d^*h^*l^3z + 27a^2b^4c^3d^*h^3l^*z + 27a^*b^6c^2d^2g^* \\
& m^2z - 18a^4b^2c^3d^*h^*l^3z - 18a^3b^2c^4f^*h^3j^*z - 18a^3b^2c^4 \\
& e^*h^3k^*z + 18a^2b^2c^5e^3h^*k^*z + 108a^3b^*c^5e^2h^*j^2z + 54a^3 \\
& b^3c^3d^*h^*k^3z + 27a^3b^3c^3e^*g^*k^3z - 27a^2b^3c^4e^*g^3k^*z + \\
& 27a^2b^3c^4d^*g^3l^*z - 27a^*b^4c^4d^2g^2l^*z - 9a^2b^5c^2e^*g^*k^3 \\
& z - 9a^2b^5c^2d^*h^*k^3z + 207a^3b^4c^2d^*e^*m^3z - 108a^2b^*c^6d^2 \\
& e^2m^*z - 90a^4b^2c^3d^*e^*m^3z - 72a^3b^2c^4e^*g^*j^3z - 72a^3b^2 \\
& c^4d^*h^*j^3z + 27a^*b^3c^5d^2e^2m^*z + 18a^2b^2c^5e^*f^3k^*z + 18 \\
& a^2b^2c^5d^*f^3l^*z + 9a^2b^4c^3e^*g^*j^3z + 9a^2b^4c^3d^*h^*j^3z \\
& - 216a^3b^*c^5d^e^2l^2z - 198a^3b^3c^3d^*e^*l^3z + 108a^3b^*c^5d^*g^ \\
& ^2j^2z - 108a^3b^*c^5d^*f^2k^2z + 72a^2b^5c^2d^*e^*l^3z - 27a^*b^5c^3 \\
& d^e^2l^2z + 27a^*b^4c^4d^2g^*j^2z + 18a^2b^2c^5f^3g^*h^*z + 144 \\
& a^3b^2c^4d^*e^*k^3z - 63a^2b^4c^3d^*e^*k^3z + 27a^*b^4c^4d^2e^*k^2z \\
& z - 9a^2b^3c^4e^*g^*h^3z - 108a^2b^*c^6d^2g^2h^*z + 81a^2b^3c^4d^* \\
& e^*j^3z + 27a^*b^3c^5d^2g^2h^*z - 27a^*b^2c^6d^2e^2j^*z - 18a^2b^2c^5 \\
& d^*g^3h^*z + 108a^2b^*c^6d^e^2h^2z - 27a^*b^3c^5d^e^2h^2z + 27a^* \\
& b^2c^6d^2f^2g^*z - 18a^2b^2c^5d^*e^*h^3z - 216a^6c^3j^2k^*l^*m^*z + \\
& 216a^6c^3h^*j^*l^2m^*z + 216a^6c^3f^*k^*l^*m^2z - 216a^5c^4f^2k^*l^*m^* \\
& z - 216a^5c^4g^2j^*k^*m^*z + 216a^5c^4f^*j^2k^*l^*z + 216a^5c^4f^*h^2l^* \\
& m^*z + 216a^5c^4e^*j^2k^*m^*z + 216a^5c^4d^*j^2l^*m^*z + 216a^5c^4g^*h^* \\
& j^2m^*z - 216a^5c^4e^*j^*k^2l^*z - 216a^5c^4d^*j^*k^2m^*z + 216a^4c^5d^2 \\
& j^*k^*m^*z - 18a^6b^2c^*k^*l^*m^3z + 216a^5c^4f^*g^*k^2m^*z - 216a^5c^4 \\
& d^*j^*k^*l^2z - 72a^6b^*c^2j^*l^3m^*z + 18a^5b^3c^*j^*l^3m^*z - 216a^5c^4 \\
& f^*h^*j^*l^2z + 216a^5c^4e^*h^*k^*l^2z + 216a^5c^4e^*f^*l^2m^*z - 216a^4 \\
& c^5e^2h^*k^*l^*z + 216a^4c^5e^2h^*j^*m^*z - 216a^4c^5e^2f^*l^*m^*z - 216a^5 \\
& c^4e^*f^*k^*m^2z + 216a^5c^4d^*g^*k^*m^2z - 216a^5c^4d^*f^*l^*m^2z + 2 \\
& 16a^4c^5e^*f^2k^*m^*z + 216a^4c^5d^*f^2l^*m^*z + 108a^5b^*c^3j^3k^*l^*z \\
& - 216a^5c^4f^*g^*h^*m^2z + 216a^4c^5f^2g^*h^*m^*z + 216a^4c^5f^*g^2j^*k^* \\
& m^*z - 216a^4c^5e^*g^2j^*l^*z + 216a^4c^5d^*g^2j^*m^*z - 72a^6b^*c^2h^*k^*m^3 \\
& z - 72a^6b^*c^2g^*l^*m^3z + 54a^5b^3c^*h^*k^*m^3z + 54a^5b^3c^*g^*l^*m^3 \\
& z - 216a^4c^5d^*h^2j^*k^*z - 18a^4b^4c^*f^*l^3m^*z + 9a^4b^4c^*h^*k^*l^3 \\
& z - 216a^4c^5e^*f^*j^2k^*z - 216a^4c^5e^*f^*h^2m^*z - 216a^4c^5d^*g^* \\
& j^2k^*z - 216a^4c^5d^*f^*j^2l^*z - 216a^4c^5d^*e^*j^2m^*z - 72a^5b^*c^3f^* \\
& k^3m^*z + 72a^4b^*c^4g^3j^*m^*z + 36a^5b^*c^3g^*k^3l^*z - 36a^4b^*c^4g^3 \\
& k^*l^*z - 216a^4c^5f^*g^*h^*j^2z + 216a^4c^5d^*f^*j^*k^2z - 216a^3c^6 \\
& d^2f^*j^*k^*z - 216a^3c^6d^2e^*j^*l^*z + 72a^4b^4c^*f^*j^*m^3z - 63a^4b^4 \\
& c^*e^*k^*m^3z - 63a^4b^4c^*d^*l^*m^3z + 216a^4c^5d^*g^*h^*k^2z - 216a^3c^6 \\
& d^2g^*h^*k^*z + 216a^3c^6d^2f^*g^*m^*z - 216a^3c^6d^e^2j^*k^*z + 144a^5 \\
& b^*c^3f^*j^*l^3z - 144a^3b^*c^5e^3j^*m^*z - 72a^5b^*c^3e^*k^*l^3z + 72a^3 \\
& b^*c^5e^3k^*l^*z - 63a^4b^4c^*g^*h^*m^3z + 18a^3b^5c^*f^*j^*l^3z - 18a^* \\
& b^5c^3e^3j^*m^*z - 9a^3b^5c^*e^*k^*l^3z + 9a^*b^5c^3e^3k^*l^*z - 216a^4 \\
& c^5d^*e^*h^*l^2z - 216a^3c^6e^2f^*h^*j^*z + 216a^3c^6d^e^2h^*l^*z - 12 \\
& 6a^*b^4c^4d^3j^*m^*z + 108a^4b^*c^4g^*h^3l^*z + 63a^*b^4c^4d^3k^*l^*z + \\
& 36a^5b^*c^3g^*h^*l^3z - 9a^3b^5c^*g^*h^*l^3z + 216a^4c^5d^*e^*f^*m^2z +
\end{aligned}$$

$$\begin{aligned}
& 216*a^3*c^6*d*f^2*g*k*z - 216*a^3*c^6*d*e*f^2*m*z + 36*a^4*b*c^4*e*j^3*k*z \\
& + 36*a^4*b*c^4*d*j^3*l*z - 216*a^3*c^6*d*f*g^2*j*z + 72*a^3*b^5*c*e*g*m^3*z \\
& + 72*a^3*b^5*c*d*h*m^3*z + 72*a^3*b*c^5*f^3*h*k*z + 72*a^3*b*c^5*f^3*g*l*z \\
& + 36*a^4*b*c^4*g*h*j^3*z + 18*a*b^4*c^4*e^3*f*m*z + 9*a^2*b^6*c*e*g*l^3*z \\
& + 9*a^2*b^6*c*d*h*l^3*z - 9*a*b^4*c^4*e^3*h*k*z - 9*a*b^4*c^4*e^3*g*l*z + 2 \\
& 16*a^3*c^6*d*e*f*j^2*z - 144*a^2*b*c^6*d^3*f*m*z + 108*a^3*b*c^5*e*g^3*k*z \\
& - 108*a^3*b*c^5*d*g^3*l*z + 108*a*b^3*c^5*d^3*f*m*z - 72*a^4*b*c^4*d*h*k^3* \\
& z + 72*a^2*b*c^6*d^3*h*k*z - 54*a*b^3*c^5*d^3*h*k*z + 36*a^4*b*c^4*e*g*k^3* \\
& z - 36*a^2*b*c^6*d^3*g*l*z - 27*a*b^3*c^5*d^3*g*l*z - 81*a^2*b^6*c*d*e*m^3* \\
& z + 216*a^4*b*c^4*d*e*l^3*z + 72*a^2*b*c^6*e^3*f*j*z + 72*a^2*b*c^6*d*e^3*l \\
& *z - 18*a*b^3*c^5*e^3*f*j*z - 18*a*b^3*c^5*d*e^3*l*z - 90*a*b^2*c^6*d^3*f*j \\
& *z + 72*a*b^2*c^6*d^3*e*k*z + 36*a^3*b*c^5*e*g*h^3*z - 36*a^2*b*c^6*e^3*g*h \\
& *z + 9*a*b^6*c^2*d*e*k^3*z + 9*a*b^3*c^5*e^3*g*h*z - 180*a^3*b*c^5*d*e*j^3* \\
& z + 18*a*b^2*c^6*d^3*g*h*z - 9*a*b^5*c^3*d*e*j^3*z + 18*a*b^2*c^6*d*e^3*h*z \\
& + 9*a*b^4*c^4*d*e*h^3*z + 36*a^2*b*c^6*d*e*g^3*z - 9*a*b^3*c^5*d*e*g^3*z - \\
& 18*a*b^2*c^6*d*e*f^3*z + 27*a^5*b^2*c^2*h^2*l*m^2*z - 27*a^5*b^2*c^2*j*k^2 \\
& *l^2*z + 27*a^4*b^3*c^2*h^2*k^2*m*z + 27*a^4*b^3*c^2*g^2*l^2*m*z + 27*a^5*b \\
& ^2*c^2*g*k^2*m^2*z - 27*a^4*b^3*c^2*h^2*k^2*l^2*z - 27*a^4*b^3*c^2*g^2*k*m^2* \\
& z - 135*a^4*b^2*c^3*e^2*l*m^2*z + 27*a^5*b^2*c^2*e*l^2*m^2*z + 27*a^4*b^3*c \\
& ^2*h*j^2*l^2*z - 27*a^4*b^2*c^3*h^2*j^2*l*z + 27*a^3*b^4*c^2*e^2*l*m^2*z - \\
& 270*a^4*b^3*c^2*f*j^2*m^2*z - 270*a^4*b^2*c^3*f^2*j*m^2*z + 162*a^3*b^4*c^2 \\
& *f^2*j*m^2*z - 108*a^3*b^3*c^3*f^2*j^2*m*z - 27*a^4*b^2*c^3*h^2*j*k^2*z - 2 \\
& 7*a^4*b^2*c^3*g^2*j*l^2*z + 27*a^3*b^3*c^3*e^2*k^2*m*z + 27*a^3*b^3*c^3*d^2 \\
& *l^2*m*z + 27*a^2*b^5*c^2*f^2*j^2*m*z + 162*a^3*b^3*c^3*d^2*k*m^2*z - 27*a^ \\
& 4*b^3*c^2*d*k^2*m^2*z - 27*a^4*b^2*c^3*g*j^2*k^2*z + 27*a^3*b^3*c^3*g^2*h^2 \\
& *m*z - 27*a^2*b^5*c^2*d^2*k*m^2*z + 162*a^3*b^2*c^4*d^2*k^2*l*z - 108*a^4*b \\
& ^2*c^3*g*h^2*l^2*z - 27*a^4*b^2*c^3*e*j^2*l^2*z + 27*a^3*b^4*c^2*g*h^2*l^2* \\
& z + 27*a^3*b^2*c^4*e^2*j^2*l*z - 27*a^2*b^4*c^3*d^2*k^2*l*z - 162*a^3*b^3*c \\
& ^3*f^2*h*l^2*z + 162*a^3*b^3*c^3*e^2*h*m^2*z - 135*a^4*b^2*c^3*e*h^2*m^2*z \\
& + 135*a^3*b^2*c^4*f^2*h^2*l*z + 27*a^3*b^4*c^2*e*h^2*m^2*z - 27*a^3*b^3*c^3 \\
& *g^2*h*k^2*z - 27*a^3*b^2*c^4*e^2*j*k^2*z - 27*a^3*b^2*c^4*d^2*j*l^2*z + 27 \\
& *a^2*b^5*c^2*f^2*h*l^2*z - 27*a^2*b^5*c^2*e^2*h*m^2*z - 27*a^2*b^4*c^3*f^2* \\
& h^2*l*z - 27*a^3*b^2*c^4*g^2*h^2*j*z + 27*a^2*b^3*c^4*e^2*g^2*m*z - 27*a^2* \\
& b^3*c^4*d^2*j^2*k*z + 27*a^2*b^3*c^4*d^2*h^2*m*z + 351*a^3*b^2*c^4*d^2*g*m^ \\
& 2*z - 189*a^2*b^4*c^3*d^2*g*m^2*z + 162*a^3*b^3*c^3*d*g^2*m^2*z - 162*a^3*b \\
& ^2*c^4*e^2*g*l^2*z + 135*a^3*b^3*c^3*d*h^2*l^2*z + 135*a^3*b^2*c^4*f^2*g*k^ \\
& 2*z - 27*a^2*b^5*c^2*d*h^2*l^2*z - 27*a^2*b^5*c^2*d*g^2*m^2*z - 27*a^2*b^4* \\
& c^3*f^2*g*k^2*z + 27*a^2*b^4*c^3*e^2*g*l^2*z + 27*a^2*b^3*c^4*f^2*g^2*k*z + \\
& 27*a^2*b^3*c^4*e^2*h^2*k*z + 135*a^3*b^2*c^4*e*f^2*l^2*z - 108*a^3*b^2*c^4 \\
& *e*g^2*k^2*z + 108*a^2*b^2*c^5*d^2*g^2*l*z + 27*a^3*b^2*c^4*e*h^2*j^2*z + 2 \\
& 7*a^2*b^4*c^3*e*g^2*k^2*z - 27*a^2*b^4*c^3*e*f^2*l^2*z - 27*a^2*b^3*c^4*e^2 \\
& *h*j^2*z - 27*a^2*b^2*c^5*e^2*f^2*l*z - 27*a^2*b^2*c^5*e^2*g^2*j*z - 27*a^2 \\
& *b^2*c^5*d^2*h^2*j*z + 162*a^2*b^3*c^4*d*e^2*l^2*z - 135*a^2*b^2*c^5*d^2*g* \\
& j^2*z - 27*a^2*b^3*c^4*d*g^2*j^2*z + 27*a^2*b^3*c^4*d*f^2*k^2*z - 162*a^2*b \\
& ^2*c^5*d^2*e*k^2*z - 27*a^2*b^2*c^5*e*f^2*h^2*z - 72*a^7*c^2*k^1*m^3*z + 9*
\end{aligned}$$

$$\begin{aligned}
& a^5b^4k^1m^3z + 72a^6c^3jk^3m^2z - 72a^6c^3hk^1l^3z - 72a^6c^3f^1l^3m^2z - 72a^5c^4h^3k^1l^2z - 72a^5c^4h^3j^1m^2z - 9a^4b^5hk^1m^3z - 9a^4b^5g^1m^3z - 144a^6c^3f^1j^1m^3z - 144a^5c^4h^3j^3k^2z - 144a^5c^4g^1j^3l^2z - 144a^5c^4f^1j^3m^2z - 144a^4c^5f^3j^1m^2z + 72a^6c^3ek^1m^3z + 72a^6c^3d^1m^3z + 72a^4c^5f^3k^1l^2z + 72a^6c^3g^1h^1m^3z + 18b^6c^3d^3j^1m^2z - 18a^3b^6f^1j^1m^3z - 9b^6c^3d^3k^1l^2z + 9a^3b^6ek^1m^3z + 9a^3b^6d^1m^3z + 144a^5c^4dk^3l^2z + 144a^3c^6d^3k^1l^2z - 72a^5c^4f^1j^1k^3z - 72a^3c^6d^3j^1m^2z + 9a^3b^6g^1h^1m^3z - 72a^5c^4g^1hk^3z - 72a^4c^5g^3hk^2z - 72a^4c^5f^1g^3m^2z - 108a^5b^3c^3j^4m^2z + 63a^6b^2c^3j^1m^4z + 36a^6b^2c^2k^1l^4z - 9a^5b^3c^3k^1l^4z - 144a^5c^4eg^1l^3z - 144a^3c^6e^3g^1l^2z + 72a^5c^4dh^1l^3z + 72a^4c^5f^1h^3j^2z + 72a^4c^5eh^3k^2z + 72a^4c^5d^1h^3l^2z + 72a^3c^6e^3hk^2z + 72a^3c^6e^3f^1m^2z - 18b^5c^4d^3f^1m^2z + 9b^5c^4d^3hk^2z + 9b^5c^4d^3g^1l^2z - 9a^2b^7eg^1m^3z - 9a^2b^7d^1h^1m^3z + 144a^4c^5eg^1j^3z + 144a^4c^5d^1h^1j^3z - 72a^5c^4de^1m^3z - 72a^3c^6ef^3k^2z - 72a^3c^6df^3l^2z + 144a^6b^2c^2f^1m^4z - 108a^5b^3c^3f^1m^4z - 72a^3c^6f^3g^1h^2z + 36a^5b^3c^3hk^4z - 36a^3b^3c^5f^4m^2z + 18b^4c^5d^3f^1j^2z - 9b^4c^5d^3ek^2z + 9a^4b^4c^3g^1l^4z - 144a^4c^5de^1k^3z - 144a^2c^7d^3ek^2z + 72a^2c^7d^3f^1j^2z - 9b^4c^5d^3g^1h^2z + 72a^3c^6dg^3h^2z + 72a^2c^7d^3g^1h^2z - 72a^5b^3c^3d^1l^4z - 72a^4b^3c^4f^1j^4z + 45a^2b^2c^6d^4l^2z - 36a^2b^3c^6e^4k^2z - 9a^3b^5c^3d^1l^4z + 9a^2b^3c^5e^4k^2z - 72a^3c^6de^1h^3z - 72a^2c^7de^3h^2z + 9b^3c^6d^3eg^1z + 72a^2c^7de^1f^3z + 36a^3b^3c^5d^1h^4z - 9a^2b^2c^6e^4g^2z + 36a^2b^3c^7d^3f^2z + 90a^5b^2c^2j^3m^2z + 45a^5b^2c^2j^2l^3z + 9a^4b^3c^2j^2k^3z - 9a^4b^3c^2h^3m^2z - 45a^4b^2c^3g^3m^2z + 9a^3b^4c^2g^3m^2z + 198a^4b^3c^2f^2m^3z - 108a^3b^3c^3f^3m^2z + 18a^2b^5c^2f^3m^2z - 117a^4b^2c^3f^2l^3z + 117a^3b^2c^4e^3m^2z + 63a^3b^4c^2f^2l^3z - 63a^2b^4c^3e^3m^2z - 171a^2b^3c^4d^3m^2z - 54a^3b^3c^3f^2k^3z + 9a^3b^2c^4g^3j^2z + 9a^2b^5c^2f^2k^3z + 18a^3b^2c^4f^2j^3z + 18a^2b^3c^4f^3j^2z - 9a^2b^4c^3f^2j^3z - 45a^2b^2c^5e^3j^2z + 9a^2b^3c^4f^2h^3z - 9a^2b^2c^5f^2g^3z + 9a^2b^8de^1m^3z - 36a^2b^3c^7d^4h^2z - 108a^6c^3h^2l^1m^2z + 108a^6c^3jk^2l^2z - 108a^6c^3g^1k^2m^2z - 108a^6c^3e^1l^2m^2z + 108a^5c^4h^2j^2l^2z + 108a^5c^4e^2l^1m^2z + 216a^5c^4f^2j^1m^2z + 108a^5c^4h^2j^1k^2z + 108a^5c^4g^2j^1l^2z + 108a^5c^4g^1j^2k^2z - 216a^4c^5d^2k^2l^2z + 108a^5c^4e^1j^2l^2z - 108a^4c^5e^2j^2l^2z - 9a^6b^2c^1l^3m^2z + 108a^5c^4e^1h^2m^2z - 108a^4c^5f^2h^2l^2z + 108a^4c^5e^2j^1k^2z + 108a^4c^5d^2j^1l^2z - 144a^6b^2c^2j^2m^3z + 108a^4c^5g^2h^2j^2z - 27a^4b^4c^3j^3m^2z + 27a^4b^3c^2j^4m^2z + 9a^5b^2c^2k^4l^2z + 216a^4c^5e^2g^1l^2z - 108a^4c^5f^2g^1k^2z - 108a^4c^5d^2g^1m^2z - 9a^4b^4c^3j^2l^3z - 108a^4c^5e^1h^2j^2z - 108a^4c^5ef^2l^2z + 108a^3c^6e^2f^2l^2z - 36a^5b^3c^3j^2k^3z + 36a^5b^3c^3h^3m^2z + 108a^3c^6e^2g^2j^2z + 108a^3c^6d^2h^2j^2z - 216a^5b^3c^3f^2m^3z + 144a^
\end{aligned}$$

$$\begin{aligned}
& a^4 b^3 c^4 f^3 m^2 z + 108 a^3 c^6 d^2 g^2 j^2 z - 72 a^3 b^5 c^4 f^2 m^3 z - 45 \\
& a^5 b^2 c^2 g^4 l^4 z - 9 a^4 b^3 c^2 h^4 k^4 z - 9 a^3 b^2 c^4 g^4 l^4 z + 9 a^2 \\
& b^3 c^4 f^4 m^2 z + 216 a^3 c^6 d^2 e^4 k^2 z - 9 a^2 b^6 c^4 f^2 l^3 z + 9 a^2 b^6 \\
& c^2 e^3 m^2 z + 108 a^3 c^6 e^2 f^2 h^2 z + 108 a^3 b^3 c^5 d^3 m^2 z + 108 a^2 \\
& c^7 d^2 e^2 j^2 z + 72 a^4 b^3 c^4 f^2 k^3 z + 72 a^4 b^5 c^3 d^3 m^2 z - 72 a^3 \\
& b^3 c^5 f^3 j^2 z + 54 a^4 b^3 c^2 d^4 l^4 z - 45 a^4 b^2 c^3 e^4 k^4 z + 18 a^3 \\
& b^3 c^3 f^3 j^4 z + 9 a^3 b^4 c^2 e^4 k^4 z - 9 a^2 b^2 c^5 f^4 j^2 z - 108 a^2 \\
& c^7 d^2 f^2 g^2 z + 9 a^3 b^2 c^4 g^4 h^4 z + 9 a^2 b^4 c^4 e^3 j^2 z - 72 a^2 \\
& b^3 c^6 d^3 j^2 z + 54 a^2 b^3 c^5 d^3 j^2 z - 36 a^3 b^3 c^5 f^2 h^3 z - 9 a^2 b^3 \\
& c^4 d^4 h^4 z + 9 a^2 b^2 c^5 e^4 g^4 z + 9 a^2 b^2 c^6 e^3 f^2 z + 36 a^7 c^2 \\
& l^3 m^2 z + 72 a^6 c^3 j^3 m^2 z - 36 a^6 c^3 j^2 l^3 z + 9 a^4 b^5 j^2 m^3 z + 36 a^5 \\
& c^4 g^3 m^2 z + 36 a^5 c^4 f^2 l^3 z - 36 a^4 c^5 e^3 m^2 z - 9 b^7 c^2 d^3 m^2 z + 9 a^2 \\
& b^7 f^2 m^3 z - 36 a^4 c^5 g^3 j^2 z + 72 a^4 c^5 f^2 j^3 z + 36 a^3 c^6 e^3 j^2 z - 9 b^5 \\
& c^4 d^3 j^2 z + 36 a^3 c^6 f^2 g^3 z - 9 a^4 b^2 c^3 j^5 z - 36 a^2 c^7 e^3 f^2 z - 9 b^3 \\
& c^6 d^3 f^2 z + 36 a^7 c^2 j^4 m^4 z - 36 a^6 c^3 k^4 l^4 z - 18 a^5 b^4 j^4 m^4 z + 36 a^6 \\
& c^3 g^4 l^4 z + 36 a^4 c^5 g^4 l^4 z + 18 a^4 b^5 f^4 m^4 z - 9 b^4 c^5 d^4 l^4 z + 36 a^5 \\
& c^4 e^4 k^4 z + 36 a^3 c^6 f^4 j^2 z - 36 a^2 c^7 d^4 l^4 z - 36 a^4 c^5 g^4 h^4 z + 9 b^3 \\
& c^6 d^4 h^4 z - 36 a^3 c^6 e^4 g^4 z + 36 a^2 c^7 e^4 g^4 z - 9 b^2 c^7 d^4 e^4 z - 36 a^7 \\
& b^3 c^4 m^5 z + 36 a^8 d^4 e^4 z + 9 a^6 b^3 m^5 z + 36 a^5 c^4 j^5 z + 9 a^4 b^3 c^4 g^4 h^4 \\
& j^4 k^4 l^4 m - 9 a^3 b^4 c^4 e^4 g^4 j^4 k^4 l^4 m - 9 a^3 b^4 c^4 d^4 h^4 j^4 k^4 l^4 m - 9 a^3 \\
& b^4 c^4 f^4 g^4 h^4 k^4 l^4 m + 36 a^4 b^3 c^3 d^4 e^4 j^4 k^4 l^4 m + 9 a^2 b^5 c^4 d^4 e^4 f^4 \\
& h^4 k^4 l^4 m + 36 a^4 b^3 c^3 e^4 f^4 g^4 k^4 l^4 m + 36 a^4 b^3 c^3 d^4 e^4 f^4 h^4 k^4 l^4 m + 9 a^2 \\
& b^5 c^4 d^4 e^4 f^4 g^4 k^4 l^4 m + 9 a^2 b^5 c^4 d^4 e^4 f^4 h^4 k^4 l^4 m + 36 a^3 b^3 c^4 d^4 e^4 f^4 \\
& g^4 k^4 l^4 m + 9 a^2 b^5 c^4 d^4 e^4 f^4 j^4 k^4 l^4 m + 36 a^3 b^3 c^4 d^4 e^4 f^4 g^4 h^4 k^4 l^4 m + 3 \\
& 6 a^4 b^3 c^3 d^4 e^4 f^4 h^4 k^4 l^4 m + 9 a^2 b^5 c^4 d^4 e^4 f^4 g^4 k^4 l^4 m + 9 a^2 b^5 c^4 d^4 e^4 f^4 h^4 \\
& k^4 l^4 m + 36 a^3 b^3 c^4 d^4 e^4 f^4 j^4 k^4 l^4 m + 9 a^2 b^5 c^4 d^4 e^4 f^4 g^4 h^4 k^4 l^4 m + 36 a^3 \\
& b^3 c^4 d^4 e^4 f^4 g^4 h^4 k^4 l^4 m + 36 a^3 b^3 c^4 d^4 e^4 f^4 g^4 l^4 m + 9 a^2 b^5 c^4 d^4 e^4 f^4 h^4 k^4 \\
& m + 9 a^2 b^5 c^4 d^4 e^4 f^4 g^4 l^4 m - 9 a^2 b^4 c^3 d^4 e^4 f^4 h^4 j^4 k^4 - 9 a^2 b^4 c^3 \\
& d^4 e^4 f^4 g^4 j^4 l^4 - 9 a^2 b^4 c^3 d^4 e^4 f^4 g^4 h^4 m + 9 a^2 b^3 c^4 d^4 e^4 f^4 g^4 h^4 j^4 - 9 a^2 b^6 \\
& c^4 d^4 e^4 f^4 k^4 l^4 m + 18 a^4 b^2 c^2 e^4 g^4 j^4 k^4 l^4 m + 18 a^4 b^2 c^2 d^4 h^4 j^4 k^4 l^4 m + \\
& 18 a^4 b^2 c^2 f^4 g^4 h^4 k^4 l^4 m - 36 a^3 b^3 c^2 d^4 e^4 j^4 k^4 l^4 m - 36 a^3 b^3 c^2 e^4 f^4 \\
& g^4 k^4 l^4 m - 36 a^3 b^3 c^2 d^4 e^4 f^4 h^4 k^4 l^4 m + 9 a^3 b^3 c^2 f^4 g^4 h^4 j^4 k^4 l^4 m + 9 a^3 \\
& b^3 c^2 e^4 g^4 h^4 j^4 k^4 m + 9 a^3 b^3 c^2 d^4 g^4 h^4 j^4 l^4 m - 108 a^3 b^2 c^3 d^4 e^4 f^4 k^4 l^4 \\
& m + 54 a^2 b^4 c^2 d^4 e^4 f^4 k^4 l^4 m - 36 a^3 b^2 c^3 d^4 e^4 f^4 g^4 j^4 k^4 m + 18 a^3 b^2 c^3 \\
& e^4 f^4 g^4 j^4 k^4 l^4 + 18 a^3 b^2 c^3 d^4 e^4 f^4 h^4 j^4 k^4 m + 18 a^3 b^2 c^3 d^4 e^4 g^4 j^4 l^4 m - 9 a^2 \\
& b^4 c^2 e^4 f^4 g^4 j^4 k^4 l^4 - 9 a^2 b^4 c^2 d^4 e^4 f^4 h^4 j^4 k^4 l^4 - 9 a^2 b^4 c^2 d^4 e^4 g^4 j^4 l^4 m + 18 a^3 \\
& b^2 c^3 e^4 f^4 g^4 h^4 k^4 m + 18 a^3 b^2 c^3 d^4 e^4 f^4 g^4 h^4 l^4 m - 9 a^2 b^4 c^2 e^4 f^4 g^4 h^4 k^4 m - \\
& 9 a^2 b^4 c^2 d^4 e^4 f^4 g^4 h^4 l^4 m - 36 a^2 b^3 c^3 d^4 e^4 f^4 j^4 k^4 l^4 - 36 a^2 b^3 c^3 d^4 \\
& e^4 f^4 h^4 k^4 m - 36 a^2 b^3 c^3 d^4 e^4 f^4 g^4 l^4 m + 9 a^2 b^3 c^3 e^4 f^4 g^4 h^4 j^4 k^4 + 9 a^2 \\
& b^3 c^3 d^4 e^4 f^4 g^4 h^4 j^4 l^4 + 9 a^2 b^3 c^3 d^4 e^4 g^4 h^4 j^4 m + 18 a^2 b^2 c^4 d^4 e^4 f^4 h^4 j^4 \\
& k^4 + 18 a^2 b^2 c^4 d^4 e^4 f^4 g^4 j^4 l^4 + 18 a^2 b^2 c^4 d^4 e^4 f^4 g^4 h^4 m - 9 a^5 b^2 c^4 h^4 j^4 k^4 \\
& l^4 m - 9 a^5 b^2 c^4 g^4 j^4 k^4 l^4 m + 27 a^5 b^2 c^4 f^4 j^4 k^4 l^4 m^2 - 9 a^4 b^3 c^4 f^4 j^4 k^4 l^4 m + 9 a^3 \\
& b^4 c^4 f^4 j^4 k^4 l^4 m - 18 a^5 b^3 c^2 e^4 j^4 k^4 l^4 m - 9 a^5 b^2 c^4 g^4 h^4 k^4 l^4 m^2 + 9 a^4 b^3 c^4 e^4 \\
& j^4 k^4 l^4 m - 18 a^5 b^3 c^2 f^4 h^4 k^4 l^4 m - 18 a^5 b^3 c^2 d^4 j^4 k^4 l^4 m + 9 a^4 b^3 c^4 d^4 j^4 k^4 l^4 m^2
\end{aligned}$$

$$\begin{aligned}
& m + 36a^5bc^2ehk^2l^2m - 36a^4b^3c^3e^2hk^2l^2m + 18a^5bc^2f^2h^2k^2l^2m - 18a^5bc^2f^2g^2k^2l^2m - 18a^4b^3c^3e^2hk^2l^2m + 9a^4b^3c^3f^2g^2k^2l^2m + 9a^3b^4c^4e^2hk^2l^2m - 9a^2b^5c^5e^2hk^2l^2m - 54a^5bc^2e^2hk^2l^2m^2 - 18a^5bc^2e^2g^2k^2l^2m^2 - 18a^5bc^2d^2hk^2l^2m^2 + 18a^4b^3c^3e^2hk^2l^2m^2 - 9a^4b^3c^3f^2hk^2l^2m^2 - 9a^4b^3c^3f^2g^2j^2l^2m^2 + 9a^4b^3c^3e^2g^2k^2l^2m^2 + 9a^4b^3c^3d^2hk^2l^2m^2 + 18a^4b^3c^3f^2g^2j^2k^2l^2m - 18a^4b^3c^3e^2g^2j^2l^2m + 18a^3b^4c^4d^2g^2k^2l^2m - 9a^3b^4c^4e^2f^2k^2l^2m - 9a^2b^5c^5d^2g^2k^2l^2m - 18a^4b^3c^3f^2g^2h^2l^2m - 18a^4b^3c^3d^2h^2j^2k^2l^2m - 9a^3b^4c^4d^2f^2k^2l^2m - 54a^4b^3c^3d^2g^2j^2k^2l^2m - 18a^4b^3c^3f^2g^2h^2k^2l^2m - 18a^4b^3c^3e^2g^2j^2k^2l^2m - 18a^4b^3c^3d^2h^2j^2k^2l^2m - 18a^3b^4c^4d^2g^2j^2k^2l^2m + 9a^3b^4c^4e^2f^2j^2k^2l^2m + 9a^3b^4c^4d^2f^2j^2l^2m^2 - 9a^3b^4c^4d^2e^2k^2l^2m^2 - 54a^3b^3c^4d^2f^2j^2k^2l^2m + 36a^4b^3c^3d^2g^2j^2k^2l^2m - 36a^3b^3c^4d^2g^2j^2k^2l^2m - 18a^4b^3c^3e^2f^2j^2k^2l^2m + 18a^4b^3c^3d^2f^2j^2k^2l^2m - 18a^3b^4c^4d^2e^2j^2k^2l^2m + 9a^3b^4c^4e^2f^2j^2k^2l^2m - 9a^3b^4c^4d^2f^2j^2l^2m^2 - 9a^3b^4c^4d^2e^2k^2l^2m^2 - 54a^3b^3c^4d^2f^2j^2k^2l^2m + 36a^4b^3c^3d^2g^2j^2k^2l^2m - 36a^3b^3c^4d^2g^2h^2k^2l^2m + 18a^4b^3c^3e^2g^2h^2k^2l^2m - 18a^4b^3c^3e^2f^2h^2k^2l^2m - 18a^4b^3c^3d^2f^2j^2k^2l^2m - 18a^3b^4c^4d^2f^2h^2l^2m - 18a^3b^3c^4d^2e^2j^2k^2l^2m - 9a^3b^4c^4d^2g^2h^2k^2l^2m - 54a^4b^3c^3d^2g^2h^2k^2l^2m - 54a^3b^3c^4d^2e^2f^2h^2j^2l^2m - 18a^4b^3c^3d^2f^2g^2l^2m - 18a^3b^3c^4d^2e^2f^2g^2k^2l^2m - 54a^4b^3c^3d^2f^2g^2k^2l^2m - 36a^4b^3c^3e^2f^2g^2j^2l^2m - 36a^4b^3c^3d^2f^2h^2j^2l^2m + 36a^3b^3c^4d^2f^2h^2j^2l^2m - 18a^4b^3c^3d^2e^2h^2k^2l^2m - 18a^4b^3c^3d^2e^2g^2l^2m^2 + 18a^3b^3c^4d^2e^2f^2h^2j^2l^2m - 18a^3b^3c^4d^2e^2f^2g^2k^2l^2m - 18a^3b^3c^4d^2f^2h^2k^2l^2m + 18a^3b^3c^4d^2f^2g^2k^2l^2m - 9a^2b^5c^5e^2f^2g^2j^2l^2m - 9a^2b^5c^5d^2f^2h^2j^2l^2m - 54a^3b^3c^4d^2f^2g^2j^2l^2m - 18a^3b^3c^4d^2e^2f^2g^2j^2l^2m - 18a^3b^4c^4d^2f^2g^2k^2l^2m + 9a^3b^4c^4d^2g^2h^2j^2k^2l^2m + 9a^3b^4c^4d^2f^2g^2k^2l^2m - 9a^3b^4c^4d^2e^2f^2l^2m - 18a^3b^3c^4d^2e^2f^2g^2h^2l^2m - 18a^3b^3c^4d^2f^2h^2j^2k^2l^2m - 9a^3b^4c^4d^2e^2f^2k^2l^2m + 18a^3b^3c^4d^2f^2g^2j^2k^2l^2m - 18a^3b^3c^4d^2f^2g^2h^2l^2m - 18a^3b^3c^4d^2e^2h^2j^2k^2l^2m - 18a^3b^3c^4d^2d^2e^2g^2j^2k^2l^2m + 18a^3b^4c^4d^2e^2f^2j^2l^2m - 9a^3b^5c^5d^2e^2f^2j^2l^2m - 9a^3b^4c^4d^2e^2f^2k^2l^2m - 18a^2b^5c^5d^2e^2f^2j^2l^2m - 9a^2b^3c^4d^2e^2g^2j^2k^2l^2m + 9a^2b^3c^4d^2e^2f^2j^2l^2m - 54a^2b^3c^5d^2e^2g^2h^2l^2m - 18a^2b^3c^5d^2e^2f^2h^2l^2m - 18a^2b^3c^5d^2e^2f^2j^2k^2l^2m + 18a^2b^3c^4d^2e^2g^2h^2l^2m - 9a^2b^3c^4d^2e^2f^2j^2k^2l^2m - 36a^3b^3c^4d^2e^2f^2h^2l^2m + 36a^2b^3c^5d^2e^2f^2h^2l^2m + 18a^2b^3c^5d^2e^2g^2h^2k^2l^2m - 18a^2b^3c^5d^2e^2f^2g^2m - 18a^2b^3c^4d^2e^2f^2h^2l^2m - 9a^2b^5c^5d^2e^2f^2h^2l^2m + 9a^2b^4c^4d^2e^2f^2h^2l^2m + 9a^2b^3c^4d^2e^2f^2g^2m - 18a^2b^3c^5d^2e^2f^2h^2k^2l^2m - 18a^2b^3c^5d^2e^2f^2h^2k^2l^2m - 18a^2b^3c^5d^2e^2f^2g^2l^2m + 27a^2b^2c^5d^2e^2f^2g^2k^2l^2m + 9a^2b^4c^4d^2e^2f^2g^2k^2l^2m - 9a^2b^3c^4d^2e^2f^2g^2h^2k^2l^2m - 9a^2b^2c^5d^2e^2f^2h^2j^2k^2l^2m - 9a^2b^2c^5d^2e^2f^2g^2j^2k^2l^2m - 9a^2b^2c^5d^2e^2f^2g^2h^2l^2m + 72a^4c^4d^2f^2g^2j^2k^2l^2m + 72a^4c^4d^2e^2f^2k^2l^2m + 9a^2b^6c^4d^2g^2k^2l^2m + 9a^2b^6c^4d^2e^2f^2j^2l^2m - 27a^4b^2c^2f^2j^2k^2l^2m - 9a^4b^2c^2g^2h^2j^2l^2m + 36a^3b^3c^2e^2h^2k^2l^2m - 18a^4b^2c^2e^2h^2k^2l^2m - 9a^4b^2c^2g^2h^2j^2k^2l^2m + 18a^4b^2c^2f^2h^2j^2k^2l^2m + 18a^4b^2c^2f^2g^2j^2k^2l^2m - 18a^4b^2c^2e^2h^2j^2k^2l^2m - 9a^4b^2c^2g^2h^2j^2k^2l^2m - 9a^3b^3c^2e^2f^2h^2j^2k^2l^2m - 9a^3b^3c^2f^2g^2j^2l^2m - 63a^4b^2c^2d^2g^2k^2l^2m +
\end{aligned}$$

$$\begin{aligned}
& 63a^3b^2c^3d^2g^2k^2l^2m - 45a^2b^4c^2d^2g^2k^2l^2m + 36a^4b^2c^2e^2f^2k^2l^2m + 27a^3b^3c^2d^2g^2k^2l^2m - 9a^4b^2c^2f^2h^2j^2k^2l^2m - 9a^4b^2c^2e^2h^2j^2k^2l^2m + 9a^3b^3c^2e^2g^2j^2l^2m - 9a^3b^2c^3d^2h^2j^2l^2m \\
& + 36a^4b^2c^2d^2f^2k^2l^2m + 27a^4b^2c^2e^2h^2j^2k^2l^2m - 27a^3b^2c^3e^2h^2j^2k^2l^2m - 18a^3b^2c^3e^2f^2j^2l^2m - 9a^4b^2c^2f^2g^2j^2k^2l^2m - 9a^4b^2c^2d^2g^2j^2l^2m + 9a^3b^3c^2f^2g^2h^2l^2m - 9a^3b^3c^2e^2h^2j^2k^2l^2m \\
& + 9a^3b^3c^2d^2h^2j^2k^2l^2m - 9a^3b^2c^3e^2g^2j^2k^2l^2m + 9a^2b^4c^2e^2h^2j^2k^2l^2m + 72a^4b^2c^2d^2g^2j^2k^2l^2m + 36a^4b^2c^2d^2e^2k^2l^2m + 27a^4b^2c^2e^2g^2h^2l^2m - 27a^4b^2c^2e^2f^2j^2k^2l^2m - 27a^4b^2c^2d^2f^2j^2k^2l^2m \\
& - 27a^3b^2c^3e^2g^2h^2l^2m + 27a^3b^2c^3e^2f^2j^2k^2l^2m + 27a^3b^2c^3d^2f^2j^2l^2m + 18a^3b^3c^2d^2g^2j^2k^2l^2m + 9a^3b^3c^2f^2g^2h^2k^2l^2m + 9a^3b^3c^2e^2g^2j^2k^2l^2m - 9a^3b^3c^2e^2g^2h^2l^2m - 9a^3b^3c^2e^2f^2j^2k^2l^2m + 9a^3b^3c^2d^2h^2j^2k^2l^2m - 9a^3b^3c^2d^2f^2j^2l^2m + 9a^2b^4c^2e^2g^2h^2l^2m + 36a^2b^3c^3d^2g^2j^2k^2l^2m - 27a^4b^2c^2f^2g^2h^2j^2k^2l^2m \\
& + 27a^3b^2c^3f^2g^2h^2j^2k^2l^2m - 18a^4b^2c^2e^2f^2h^2l^2m - 18a^3b^3c^2d^2g^2j^2k^2l^2m - 18a^3b^2c^3d^2g^2j^2k^2l^2m + 18a^2b^3c^3d^2f^2j^2k^2l^2m - 9a^4b^2c^2e^2g^2h^2k^2l^2m - 9a^4b^2c^2d^2g^2h^2l^2m - 9a^3b^3c^2f^2g^2h^2j^2k^2l^2m + 9a^3b^3c^2e^2f^2j^2k^2l^2m - 9a^3b^2c^3f^2g^2h^2k^2l^2m + 9a^2b^4c^2d^2g^2j^2k^2l^2m + 9a^2b^3c^3d^2e^2j^2l^2m + 36a^3b^2c^3e^2f^2g^2l^2m + 36a^2b^3c^3d^2g^2h^2k^2l^2m - 18a^3b^3c^2d^2g^2h^2k^2l^2m - 18a^3b^2c^3d^2g^2h^2k^2l^2m + 9a^3b^3c^2e^2f^2h^2k^2l^2m + 9a^3b^3c^2d^2f^2j^2k^2l^2m - 9a^3b^2c^3f^2g^2h^2j^2l^2m - 9a^3b^2c^3e^2g^2h^2j^2k^2l^2m - 9a^2b^4c^2e^2f^2g^2l^2m + 9a^2b^4c^2d^2g^2h^2k^2l^2m + 9a^2b^3c^3d^2f^2h^2l^2m + 9a^2b^3c^3d^2e^2j^2k^2l^2m + 36a^3b^2c^3d^2f^2h^2k^2l^2m + 36a^3b^2c^3d^2e^2j^2k^2l^2m + 18a^3b^3c^2d^2g^2h^2k^2l^2m + 18a^3b^2c^3e^2g^2h^2j^2l^2m + 18a^3b^2c^3e^2f^2h^2k^2l^2m - 18a^3b^2c^3e^2f^2h^2j^2k^2l^2m - 18a^3b^2c^3d^2g^2h^2k^2l^2m + 18a^3b^2c^3d^2e^2h^2l^2m + 18a^2b^3c^3e^2f^2h^2j^2k^2l^2m - 9a^3b^3c^2e^2g^2h^2j^2l^2m - 9a^3b^3c^2e^2f^2h^2k^2l^2m + 9a^3b^3c^2d^2f^2g^2l^2m - 9a^3b^3c^2d^2e^2h^2l^2m - 9a^3b^2c^3f^2g^2h^2j^2k^2l^2m - 9a^3b^2c^3d^2g^2h^2j^2k^2l^2m - 9a^2b^4c^2d^2f^2h^2k^2l^2m - 9a^2b^4c^2d^2e^2j^2k^2l^2m - 9a^2b^3c^3e^2g^2h^2j^2l^2m - 9a^2b^3c^3e^2f^2h^2k^2l^2m + 9a^2b^3c^3e^2f^2h^2k^2l^2m - 9a^2b^3c^3e^2f^2g^2k^2l^2m - 9a^2b^3c^3d^2e^2h^2l^2m + 36a^3b^3c^2e^2f^2g^2j^2k^2l^2m + 36a^3b^3c^2d^2f^2h^2j^2k^2l^2m + 18a^3b^3c^2d^2f^2g^2k^2l^2m - 18a^3b^2c^3e^2f^2g^2j^2k^2l^2m - 18a^3b^2c^3d^2f^2h^2j^2k^2l^2m - 18a^2b^3c^3e^2f^2g^2j^2k^2l^2m - 18a^2b^3c^3d^2f^2h^2j^2k^2l^2m + 9a^3b^3c^2d^2e^2h^2k^2l^2m + 9a^3b^3c^2d^2e^2g^2l^2m - 9a^3b^2c^3e^2g^2h^2j^2k^2l^2m - 9a^3b^2c^3d^2g^2h^2j^2k^2l^2m - 9a^3b^2c^3d^2e^2g^2h^2j^2k^2l^2m + 9a^2b^4c^2e^2f^2g^2j^2k^2l^2m + 9a^2b^4c^2d^2f^2h^2j^2k^2l^2m + 9a^2b^4c^2d^2f^2h^2j^2k^2l^2m + 9a^2b^3c^3e^2f^2g^2k^2l^2m + 9a^2b^3c^3d^2f^2h^2k^2l^2m + 72a^2b^2c^4d^2f^2g^2j^2k^2l^2m + 36a^2b^2c^4d^2e^2f^2l^2m + 27a^3b^2c^3d^2g^2h^2j^2k^2l^2m + 27a^3b^2c^3d^2f^2g^2k^2l^2m + 27a^3b^2c^3d^2e^2g^2k^2l^2m - 27a^2b^2c^4d^2g^2h^2j^2k^2l^2m - 27a^2b^2c^4d^2f^2g^2k^2l^2m - 27a^2b^2c^4d^2e^2g^2k^2l^2m + 18a^2b^3c^3d^2f^2g^2j^2k^2l^2m - 18a^2b^2c^4d^2e^2h^2k^2l^2m - 9a^3b^2c^3e^2f^2h^2j^2k^2l^2m + 9a^2b^3c^3e^2f^2g^2j^2l^2m - 9a^2b^3c^3d^2g^2h^2j^2k^2l^2m - 9a^2b^3c^3d^2f^2g^2k^2l^2m - 9a^2b^3c^3d^2e^2g^2k^2l^2m - 9a^2b^2c^4d^2f^2h^2j^2k^2l^2m - 9a^2b^2c^4d^2e^2h^2j^2k^2l^2m + 36a^2b^2c^4d^2e^2f^2k^2l^2m - 27a^3b^2c^3d^2e^2h^2j^2l^2m + 27a^2b^2c^4d^2e^2h^2j^2l^2m - 18a^3b^2c^3d^2e^2g^2k^2l^2m - 9a^3b^2c^3
\end{aligned}$$

$$\begin{aligned}
& *d*f*g*j^1^2 + 9*a^2*b^4*c^2*d*e*h*j^1^2 + 9*a^2*b^3*c^3*e*f*g^2*h*m + 9*a^2 \\
& *b^3*c^3*d*f*h^2*j*k - 9*a^2*b^3*c^3*d*e*h^2*j^1 - 9*a^2*b^2*c^4*e^2*f*g*j \\
& *k - 9*a^2*b^2*c^4*d*e^2*g*j*m + 63*a^3*b^2*c^3*d*e*f*j^m^2 - 63*a^2*b^2*c^4 \\
& *d*e*f^2*j^m - 45*a^2*b^4*c^2*d*e*f*j^m^2 + 36*a^2*b^2*c^4*d*e*f^2*k^1 - 2 \\
& 7*a^3*b^2*c^3*e*f*g*h^1^2 + 27*a^2*b^3*c^3*d*e*f*j^2*m + 27*a^2*b^2*c^4*e^2 \\
& *f*g*h^1 + 9*a^2*b^4*c^2*e*f*g*h^1^2 - 9*a^2*b^3*c^3*e*f*g*h^2*1 + 9*a^2*b^3 \\
& *c^3*d*f*g*h^2*m + 9*a^2*b^3*c^3*d*e*h*j^2*k + 9*a^2*b^3*c^3*d*e*g*j^2*1 + \\
& 18*a^2*b^2*c^4*d*e*g^2*j*k - 9*a^3*b^2*c^3*d*e*g*h^m^2 - 9*a^2*b^3*c^3*d*e \\
& *g*j*k^2 - 9*a^2*b^2*c^4*e*f^2*g*h*k - 9*a^2*b^2*c^4*d*f^2*g*h^1 + 18*a^2*b \\
& ^2*c^4*d*f*g^2*h*k - 18*a^2*b^2*c^4*d*e*g^2*h^1 - 9*a^2*b^3*c^3*d*f*g*h^k^2 \\
& - 9*a^2*b^2*c^4*e*f*g^2*h*j + 36*a^2*b^3*c^3*d*e*f*h^1^2 - 18*a^2*b^2*c^4*d \\
& *e*f*h^2*1 - 9*a^2*b^2*c^4*d*f*g*h^2*j - 9*a^2*b^2*c^4*d*e*g*h^j^2 - 27*a^2 \\
& *b^2*c^4*d*e*f*g*k^2 + 18*a^2*b^2*c^4*d^2*f*h^k^2 - 9*a^2*b^3*c^3*e*f*g^2* \\
& k^2 - 9*a^2*b^2*c^4*e^2*f*h^j^2 - 9*a^2*b^2*c^4*d*f^2*h^2*k + 45*a^2*b^3*c^3 \\
& *d*e*f^2*m^2 + 36*a^2*b^2*c^4*d^2*e*g^1^2 + 9*a^2*b^3*c^3*d*e*g^2*1^2 + 9* \\
& a^2*b^2*c^4*e*f^2*g*j^2 + 9*a^2*b^2*c^4*d*f^2*h^j^2 - 9*a^2*b^2*c^4*d*e^2*h \\
& *k^2 - 36*a^2*b^2*c^4*d*e^2*f^1^2 - 9*a^2*b^2*c^4*d*f*g^2*j^2 - 12*a^6*b*c* \\
& h*k^1^3*m + 3*a*b^6*c*e^3*k^1*m + 3*a*b^6*c*d*e*f^1^3 - 12*a*b*c^6*d*e^3*f* \\
& h + 9*a^5*b^2*c*h^2*k^1^2*m + 18*a^5*b*c^2*g^2*k^2*1*m - 9*a^5*b^2*c*h^2*j* \\
& l^m^2 + 9*a^5*b*c^2*h^2*j^2*1*m - 9*a^4*b^3*c*g^2*k^2*1*m - 3*a^4*b^2*c^2*g \\
& ^3*k^1*m + 18*a^5*b*c^2*f^2*k^1*m^2 + 15*a^3*b^3*c^2*f^3*k^1*m + 9*a^5*b^2*c \\
& *h^j^2*k^m^2 + 9*a^5*b^2*c*g*j^2*1*m^2 - 9*a^5*b^2*c*f*k^2*1^2*m + 9*a^5*b \\
& *c^2*h^2*j*k^2*m + 9*a^5*b*c^2*g^2*j^1^2*m - 9*a^4*b^3*c*f^2*k^1*m^2 + 36*a \\
& ^3*b^2*c^3*e^3*k^1*m - 27*a^5*b*c^2*g^2*j*k^m^2 - 18*a^5*b*c^2*h^2*j*k^1^2 \\
& - 18*a^2*b^4*c^2*e^3*k^1*m - 9*a^5*b^2*c*g*j*k^2*m^2 - 9*a^5*b^2*c*e*k^2*1* \\
& m^2 + 9*a^5*b*c^2*h^j^2*k^2*1 + 9*a^5*b*c^2*g*j^2*k^2*m + 9*a^4*b^3*c*g^2*j \\
& *k^m^2 + 9*a^3*b^4*c*e^2*k^1^2*m + 3*a^4*b^2*c^2*h^3*j*k^1 - 54*a^4*b^3*c^3*d \\
& ^2*k^2*1*m - 51*a^2*b^3*c^3*d^3*k^1*m - 27*a^4*b^3*c^3*e^2*j^2*1*m - 18*a^5*b \\
& *c^2*g*h^2*1^2*m - 9*a^5*b^2*c*e*j^1^2*m^2 - 9*a^5*b^2*c*d*k^1^2*m^2 + 9*a^5 \\
& *b*c^2*g^2*h^1*m^2 + 9*a^5*b*c^2*g*j^2*k^1^2 + 9*a^5*b*c^2*e*j^2*1^2*m - 9 \\
& *a^3*b^4*c*e^2*j^1*m^2 - 9*a^2*b^5*c*d^2*k^2*1*m + 3*a^4*b^2*c^2*g*h^3*1*m \\
& - 3*a^3*b^3*c^2*g^3*j*k^1 + 18*a^5*b*c^2*e*j^2*k^m^2 + 18*a^5*b*c^2*d*j^2*1 \\
& *m^2 + 18*a^4*b^3*c^3*f^2*j^2*k^1 + 9*a^5*b*c^2*g*h^2*k^m^2 + 9*a^5*b*c^2*f*h \\
& ^2*1*m^2 + 9*a^5*b*c^2*f*j*k^2*1^2 - 9*a^4*b^3*c*e*j^2*k^m^2 - 9*a^4*b^3*c* \\
& d*j^2*1*m^2 + 9*a^4*b^2*c^2*f*j^3*k^1 + 9*a^4*b^2*c^2*e*j^3*k^m + 9*a^4*b^2 \\
& *c^2*d*j^3*1*m + 9*a^4*b^3*c^3*f^2*h^2*1*m + 9*a^4*b^3*c^3*e^2*j*k^2*m + 9*a^4* \\
& b^3*c^3*d^2*j^1^2*m - 3*a^3*b^3*c^2*g^3*h^k^m - 3*a^3*b^2*c^3*f^3*j*k^1 + 3*a \\
& ^2*b^4*c^2*f^3*j*k^1 + 45*a^4*b^3*c^3*d^2*j*k^m^2 - 27*a^5*b*c^2*d*j*k^2*m^2 \\
& + 18*a^5*b*c^2*g*h^j^2*m^2 + 18*a^4*b^3*c^3*e^2*j*k^1^2 + 15*a^2*b^3*c^3*e^3* \\
& j*k^1 - 12*a^3*b^2*c^3*f^3*h^k^m - 12*a^3*b^2*c^3*f^3*g^1*m + 9*a^5*b*c^2*g \\
& *h^k^2*1^2 - 9*a^4*b^3*c*g*h^j^2*m^2 + 9*a^4*b^3*c*d*j*k^2*m^2 + 9*a^4*b^2*c \\
& ^2*g*h^j^3*m + 9*a^4*b^3*c^3*g^2*h^2*k^1 + 9*a^4*b^3*c^3*g^2*h^2*j^m + 9*a^2*b \\
& ^5*c*d^2*j*k^m^2 + 3*a^2*b^4*c^2*f^3*h^k^m + 3*a^2*b^4*c^2*f^3*g^1*m + 36*a \\
& ^2*b^2*c^4*d^3*j*k^1 + 18*a^4*b^3*c^3*e^2*g^1^2*m + 15*a^2*b^3*c^3*e^3*g^1*m \\
& + 12*a^4*b^2*c^2*d*j*k^3*1 + 9*a^5*b*c^2*f*g*k^2*m^2 + 9*a^5*b*c^2*e*h^k^2*
\end{aligned}$$

$$\begin{aligned}
& m^2 + 9a^4b^3c^3g^2h^2j^2k^2l + 9a^4b^3c^3f^2h^2k^2l + 9a^4b^3c^3f^2g^2k^2m + 9a^4b^3c^3d^2h^2l^2m^2 - 9a^3b^3c^2e^2h^3k^2m + 6a^2b^3c^3e^3h^2k^2m + 45a^4b^3c^3e^2h^2j^2m^2 + 36a^2b^2c^4d^3h^2k^2m - 33a^3b^2c^3d^2g^3l^2m - 27a^4b^3c^3f^2h^2j^2l^2 - 27a^4b^3c^3e^2f^2l^2m^2 - 27a^4b^3c^3e^2h^2j^2m - 18a^4b^3c^3g^2h^2j^2k^2 - 18a^4b^3c^3f^2g^2k^2l - 18a^4b^3c^3e^2g^2k^2m - 18a^3b^3c^4d^2g^2l^2m + 12a^4b^2c^2d^2h^2k^3m + 9a^5b^3c^2e^2f^2l^2m^2 + 9a^5b^3c^2d^2g^2l^2m^2 + 9a^4b^3c^3f^2g^2k^2l^2 + 9a^4b^3c^3e^2g^2k^2m^2 + 9a^4b^3c^3g^2h^2j^2k^2 + 9a^4b^3c^3f^2h^2j^2l^2 + 9a^4b^3c^3e^2f^2l^2m - 9a^3b^4c^2e^2h^2j^2m^2 + 9a^3b^3c^4e^2f^2l^2m + 9a^2b^5c^2e^2h^2j^2m^2 + 9a^2b^4c^2d^2g^3l^2m - 9a^2b^2c^4d^3g^2l^2m - 9a^2b^5c^2d^2g^2l^2m - 6a^4b^2c^2e^2h^2k^3l - 6a^3b^2c^3f^2g^3j^2m + 3a^4b^2c^2g^2h^2j^2k^3 + 3a^4b^2c^2f^2g^2k^3l + 3a^4b^2c^2e^2g^2k^3m + 3a^3b^2c^3g^3h^2j^2k + 3a^3b^2c^3f^2g^3k^2l + 3a^3b^2c^3e^2g^3k^2m - 27a^3b^3c^4d^2h^2k^2l + 18a^4b^3c^3e^2f^2k^2m^2 + 18a^4b^3c^3d^2f^2l^2m^2 + 9a^4b^3c^3f^2h^2j^2k^2 + 9a^4b^3c^3f^2g^2j^2l^2 + 9a^4b^3c^3e^2g^2k^2l^2 + 9a^4b^3c^3d^2h^2k^2l + 9a^3b^4c^2e^2g^2j^2m^2 + 9a^3b^4c^2d^2h^2j^2m^2 - 9a^3b^3c^2e^2g^2j^3m - 9a^3b^3c^2d^2h^2j^3m + 9a^3b^3c^4e^2g^2k^2l + 9a^3b^3c^4e^2g^2j^2m + 9a^3b^3c^4d^2h^2j^2m - 3a^2b^3c^3f^3h^2j^2k - 3a^2b^3c^3f^3g^2j^2l - 3a^2b^3c^3e^2f^3k^2m - 3a^2b^3c^3d^2f^3l^2m + 45a^4b^3c^3d^2g^2j^2m^2 + 45a^3b^3c^4d^2g^2j^2m + 24a^4b^2c^2d^2g^2k^2l^3 + 24a^2b^2c^4e^3f^2j^2m + 18a^4b^3c^3f^2g^2h^2m^2 + 18a^4b^3c^3d^2h^2j^2l^2 + 18a^3b^3c^4e^2h^2j^2k - 12a^4b^2c^2e^2g^2j^2l^3 - 12a^4b^2c^2e^2f^2k^2l^3 - 12a^4b^2c^2d^2e^2l^3m - 12a^2b^2c^4e^3g^2j^2l - 12a^2b^2c^4e^3f^2k^2l - 12a^2b^2c^4d^2e^3l^2m + 9a^4b^3c^3f^2g^2j^2k^2 + 9a^4b^3c^3e^2h^2j^2k^2 + 9a^3b^2c^3e^2h^3j^2k + 9a^3b^2c^3d^2h^3j^2l + 9a^3b^3c^4f^2g^2j^2k + 9a^3b^3c^4d^2h^2j^2l + 9a^2b^5c^2d^2g^2j^2m^2 + 9a^2b^5c^2d^2g^2j^2m - 3a^4b^2c^2d^2h^2j^2l^3 - 3a^2b^3c^3f^3g^2h^2m - 3a^2b^2c^4e^3h^2j^2k + 18a^4b^3c^3f^2g^2h^2l^2 + 18a^3b^3c^4e^2g^2h^2m + 18a^3b^3c^4d^2h^2j^2k^2 + 18a^3b^3c^4d^2f^2k^2l + 18a^3b^3c^4d^2e^2k^2m + 9a^4b^3c^3e^2g^2h^2m^2 + 9a^4b^3c^3e^2f^2j^2l^2 + 9a^4b^3c^3d^2g^2j^2l^2 + 9a^3b^2c^3f^2g^2h^3l + 9a^3b^2c^3e^2g^2h^3m + 9a^3b^3c^4f^2g^2h^2l + 9a^3b^3c^4e^2g^2j^2k + 9a^3b^3c^4e^2f^2j^2l - 9a^2b^3c^3d^2g^3j^2l + 9a^2b^4c^3d^2g^2j^2l - 3a^4b^2c^2f^2g^2h^2l^3 - 3a^3b^3c^2e^2g^2j^2k^3 - 3a^3b^3c^2d^2h^2j^2k^3 - 3a^3b^3c^2d^2f^2k^3l - 3a^3b^3c^2d^2e^2k^3m - 3a^2b^2c^4e^3g^2h^2m - 33a^3b^2c^3d^2e^2j^3m - 27a^4b^3c^3e^2f^2h^2m^2 - 27a^3b^3c^4d^2e^2k^2l^2 - 18a^4b^3c^3d^2e^2j^2m^2 - 18a^3b^3c^4e^2f^2j^2k - 18a^3b^3c^4d^2f^2j^2l - 9a^4b^2c^2d^2e^2j^2m^3 + 9a^4b^3c^3d^2g^2h^2m^2 + 9a^4b^3c^3d^2e^2k^2l^2 + 9a^3b^3c^4f^2g^2h^2k + 9a^3b^3c^4e^2f^2j^2k^2 + 9a^3b^3c^4d^2f^2j^2l^2 + 9a^3b^3c^4e^2f^2h^2m + 9a^3b^3c^4d^2e^2k^2l - 9a^2b^5c^2d^2e^2j^2m^2 + 9a^2b^4c^2d^2e^2j^3m - 9a^2b^3c^3d^2g^3h^2m + 9a^2b^3c^5d^2e^2k^2l + 9a^2b^3c^5d^2e^2j^2m + 9a^2b^4c^3d^2g^2h^2m - 6a^3b^2c^3d^2g^2j^3k - 3a^3b^3c^2f^2g^2h^2k^3 + 3a^3b^2c^3e^2f^2j^3k + 3a^3b^2c^3d^2f^2j^3l + 3a^2b^2c^4e^2f^3j^2k + 3a^2b^2c^4d^2f^3j^2l + 45a^3b^3c^4d^2g^2h^2l^2 + 36
\end{aligned}$$

$$\begin{aligned}
& a^4 b^2 c^2 e f g m^3 + 36 a^4 b^2 c^2 d f h m^3 - 27 a^3 b^3 c^4 e^2 g h k^2 - 27 a^3 b^3 c^4 d g^2 h^2 l - 18 a^3 b^3 c^4 f^2 g h j^2 + 18 a^3 b^3 c^4 d e^2 j l^2 + 15 a^3 b^3 c^2 d e j l^3 + 12 a^2 b^2 c^4 e f^3 g m + 12 a^2 b^2 c^4 d f^3 h m + 9 a^3 b^3 c^4 f g^2 h^2 j + 9 a^3 b^3 c^4 e g^2 h^2 k + 9 a^3 b^3 c^4 d f^2 j k^2 + 9 a^2 b^3 c^5 d^2 f^2 j k + 9 a^2 b^3 c^5 d^2 g h l^2 - 9 a^2 b^3 c^4 d^2 g h^2 l - 6 a^2 b^2 c^4 e f^3 h l + 3 a^3 b^2 c^3 f g h j^3 + 3 a^2 b^2 c^4 f^3 g h j + 45 a^3 b^3 c^4 d^2 f g m^2 - 27 a^2 b^3 c^5 d^2 f^2 g m + 18 a^3 b^3 c^4 e^2 f g l^2 + 15 a^3 b^3 c^2 e f g l^3 - 12 a^3 b^2 c^3 d e j k^3 + 9 a^3 b^3 c^4 d^2 e h m^2 + 9 a^3 b^3 c^4 e g^2 h j^2 + 9 a^3 b^3 c^4 e f^2 h k^2 - 9 a^2 b^3 c^3 d f h^3 l + 9 a^2 b^3 c^5 d^2 f^2 h l + 9 a^2 b^3 c^5 d^2 f g m^2 + 9 a^2 b^3 c^4 d^2 f^2 g m + 6 a^3 b^3 c^2 d f h l^3 + 3 a^2 b^4 c^2 d e j k^3 + 18 a^3 b^3 c^4 e f g^2 k^2 + 18 a^2 b^3 c^5 d^2 g^2 h j + 18 a^2 b^3 c^5 d^2 f g^2 l + 18 a^2 b^3 c^5 d^2 e g^2 m - 12 a^3 b^2 c^3 d f h k^3 + 9 a^3 b^3 c^4 e f h^2 j^2 + 9 a^3 b^3 c^4 d f^2 g l^2 + 9 a^3 b^3 c^4 d e^2 g m^2 + 9 a^3 b^3 c^4 d g h^2 j^2 + 9 a^2 b^2 c^4 e f g^3 k + 9 a^2 b^2 c^4 d g^3 h j + 9 a^2 b^2 c^4 d f g^3 l + 9 a^2 b^2 c^4 d e g^3 m + 9 a^2 b^3 c^5 e^2 f^2 h j + 9 a^2 b^3 c^5 e^2 f^2 g k - 9 a^2 b^3 c^4 d^2 g^2 h j - 9 a^2 b^3 c^4 d^2 f g^2 l - 9 a^2 b^3 c^4 d^2 e g^2 m - 3 a^3 b^2 c^3 e f g k^3 + 3 a^2 b^4 c^2 e f g k^3 + 3 a^2 b^4 c^2 d f h k^3 - 54 a^3 b^3 c^4 d e f^2 m^2 - 51 a^3 b^3 c^2 d e f m^3 - 27 a^3 b^3 c^4 d e g^2 l^2 + 9 a^3 b^3 c^4 d e h^2 k^2 + 9 a^2 b^3 c^5 e^2 f g^2 j + 9 a^2 b^3 c^5 d^2 f h^2 j + 9 a^2 b^3 c^5 d^2 e h^2 k + 9 a^2 b^3 c^5 d e^2 g^2 l - 9 a^2 b^3 c^5 d e f^2 m^2 - 9 a^2 b^4 c^3 d^2 e g l^2 - 9 a^2 b^2 c^5 d^2 e^2 g l - 9 a^2 b^2 c^5 d^2 e^2 f m - 3 a^2 b^3 c^3 e f g j^3 - 3 a^2 b^3 c^3 d f h j^3 + 36 a^3 b^2 c^3 d e f l^3 - 27 a^2 b^3 c^5 d^2 f g j^2 - 18 a^2 b^4 c^2 d e f l^3 - 18 a^2 b^3 c^5 d e^2 h^2 j + 9 a^2 b^3 c^5 d^2 e h j^2 + 9 a^2 b^3 c^5 d f^2 g^2 j + 9 a^2 b^4 c^3 d e^2 f l^2 + 9 a^2 b^3 c^4 d^2 f g j^2 - 9 a^2 b^2 c^5 d^2 f^2 g j - 9 a^2 b^2 c^5 d^2 e f^2 l + 3 a^2 b^2 c^4 d e h^3 j - 18 a^2 b^3 c^5 e^2 f g h^2 + 18 a^2 b^3 c^5 d^2 e f k^2 + 15 a^2 b^3 c^3 d e f k^3 + 9 a^2 b^3 c^5 e f^2 g^2 h + 9 a^2 b^3 c^5 d e^2 g j^2 - 9 a^2 b^3 c^4 d^2 e f k^2 + 9 a^2 b^2 c^5 d^2 e g^2 j - 9 a^2 b^2 c^5 d e^2 f^2 k + 3 a^2 b^2 c^4 e f g h^3 + 18 a^2 b^3 c^5 d e f^2 j^2 + 9 a^2 b^3 c^5 d f^2 g h^2 - 9 a^2 b^3 c^4 d e f^2 j^2 + 9 a^2 b^2 c^5 d^2 f g^2 h - 3 a^2 b^2 c^4 d e f j^3 + 9 a^2 b^3 c^5 d e g^2 h^2 - 9 a^2 b^2 c^5 d^2 e g h^2 + 9 a^2 b^2 c^5 d e^2 f h^2 - 36 a^6 c^2 f j k l m^2 + 36 a^5 c^3 f^2 j k l m - 36 a^5 c^3 f h^2 j l m + 36 a^5 c^3 e h j^2 l m - 18 a^6 b c j^2 k l m^2 + 9 a^6 b c j k^2 l^2 m + 3 a^5 b^2 c j^3 k l m - 36 a^5 c^3 f g j k^2 m - 36 a^5 c^3 e f k^2 l m + 36 a^5 c^3 d g k^2 l m - 36 a^4 c^4 d^2 g k l m - 36 a^5 c^3 e h j k l^2 - 36 a^5 c^3 e f j l^2 m - 36 a^5 c^3 d f k l^2 m + 36 a^4 c^4 e^2 h j k l + 36 a^4 c^4 e^2 f j l m + 9 a^6 b c h k^2 l m^2 - 3 a^4 b^3 c h^3 k l m - 36 a^5 c^3 e g h l^2 m + 36 a^5 c^3 e f j k m^2 - 36 a^5 c^3 d g j k m^2 + 36 a^5 c^3 d f j l m^2 - 36 a^5 c^3 d e k l m^2 + 36 a^4 c^4 e^2 g h l m - 36 a^4 c^4 e f^2 j k m - 36 a^4 c^4 d f^2 j l m + 9 a^6 b c h j l^2 m^2 + 9 a^6 b c g k l^2 m^2 + 9 a^5 b^2 c g k^3 l m + 3 a^3 b^4 c g^3 k l m + 36 a^5 c^3 f g h j m^2 + 36 a^5 c^3 e f h l m^2 - 36 a^4 c^4 f^2 g h j m - 36 a^4 c^4 e f^2 h l m - 24 a^4 b c^3 f^3 k l m - 12 a^5 b c
\end{aligned}$$

$$\begin{aligned}
& ^2*h*j^3*k*m - 12*a^5*b*c^2*g*j^3*l*m - 3*a^2*b^5*c*f^3*k*l*m - 36*a^4*c^4* \\
& e*g^2*h*k*k^1 - 36*a^4*c^4*e*f*g^2*l*m + 12*a^5*b^2*c*e*k*k^1^3*m - 6*a^5*b^2*c \\
& *f*j^1^3*m + 3*a^5*b^2*c*h*j*k*k^1^3 + 48*a^3*b*c^4*d^3*k*k^1*m + 36*a^4*c^4*e* \\
& f*h^2*j*m + 36*a^4*c^4*d*g*h^2*k*k^1 - 36*a^4*c^4*d*f*h^2*k*m - 36*a^4*c^4*d* \\
& e*j^2*k*k^1 + 24*a^5*b*c^2*d*k^3*l*m + 21*a*b^5*c^2*d^3*k*k^1*m - 12*a^5*b*c^2* \\
& g*j*k^3*l - 9*a^4*b^3*c*d*k^3*l*m + 6*a^5*b*c^2*f*j*k^3*m + 3*a^5*b^2*c*g*h \\
& *l^3*m - 36*a^4*c^4*e*f*h*j^2*l - 12*a^5*b*c^2*g*h*k^3*m - 3*a^5*b^2*c*e*j* \\
& k*m^3 - 3*a^5*b^2*c*d*j^1*m^3 - 36*a^4*c^4*d*g*h*j*k^2 - 36*a^4*c^4*d*f*g*k \\
& ^2*l - 36*a^4*c^4*d*e*h*k^2*l - 36*a^4*c^4*d*e*g*k^2*m + 36*a^3*c^5*d^2*g*h \\
& *j*k + 36*a^3*c^5*d^2*f*g*k*k^1 - 36*a^3*c^5*d^2*f*g*j*m + 36*a^3*c^5*d^2*e*h \\
& *k*k^1 + 36*a^3*c^5*d^2*e*g*k*m - 36*a^3*c^5*d^2*e*f*l*m + 24*a^5*b^2*c*e*h*l \\
& *m^3 - 24*a^3*b*c^4*e^3*j*k*k^1 - 12*a^5*b^2*c*f*h*k*m^3 - 12*a^5*b^2*c*f*g*l \\
& *m^3 - 3*a^5*b^2*c*g*h*j*m^3 - 3*a^4*b^3*c*e*j*k*k^1^3 - 3*a*b^5*c^2*e^3*j*k* \\
& l + 36*a^4*c^4*d*e*h*j^1^2 + 36*a^4*c^4*d*e*g*k^1^2 - 36*a^3*c^5*d*e^2*h*j* \\
& l - 36*a^3*c^5*d*e^2*g*k*k^1 - 36*a^3*c^5*d*e^2*f*k*m + 24*a^4*b*c^3*e*h^3*k* \\
& m - 24*a^3*b*c^4*e^3*g*l*m - 18*a*b^4*c^3*d^3*j*k*k^1 - 12*a^4*b*c^3*g*h^3*j* \\
& l - 12*a^4*b*c^3*f*h^3*k*k^1 - 12*a^4*b*c^3*d*h^3*l*m + 12*a^3*b*c^4*e^3*h*k* \\
& m + 6*a^4*b*c^3*f*h^3*j*m - 3*a^4*b^3*c*g*h*j^1^3 - 3*a^4*b^3*c*f*h*k*k^1^3 - \\
& 3*a^4*b^3*c*e*g*l^3*m - 3*a^4*b^3*c*d*h^1^3*m - 3*a*b^5*c^2*e^3*h*k*m - 3* \\
& a*b^5*c^2*e^3*g*l*m + 36*a^4*c^4*e*f*g*h^1^2 - 36*a^4*c^4*d*e*f*j*m^2 - 36* \\
& a^3*c^5*e^2*f*g*h^1 - 36*a^3*c^5*d*f^2*g*j*k - 36*a^3*c^5*d*e*f^2*k*k^1 + 36* \\
& a^3*c^5*d*e*f^2*j*m - 18*a*b^4*c^3*d^3*h*k*m - 9*a*b^4*c^3*d^3*g*l*m + 30*a \\
& ^5*b*c^2*d*g*k*m^3 - 30*a^4*b^3*c*d*g*k*m^3 - 24*a^5*b*c^2*e*f*k*m^3 - 24*a \\
& ^5*b*c^2*d*f^1*m^3 + 24*a^4*b*c^3*e*g*j^3*m + 24*a^4*b*c^3*d*h*j^3*m + 15*a \\
& ^4*b^3*c*e*f*k*m^3 + 15*a^4*b^3*c*d*f^1*m^3 + 12*a^5*b*c^2*e*g*j*m^3 + 12*a \\
& ^5*b*c^2*d*h*j*m^3 - 12*a^4*b*c^3*f*h*j^3*k - 12*a^4*b*c^3*f*g*j^3*l + 6*a^ \\
& 4*b^3*c*e*g*j*m^3 + 6*a^4*b^3*c*d*h*j*m^3 + 6*a^4*b*c^3*e*h*j^3*l + 36*a^3*c \\
& ^5*d*e*g^2*h^1 - 24*a^5*b*c^2*f*g*h*m^3 + 15*a^4*b^3*c*f*g*h*m^3 - 9*a*b^6 \\
& *c*d^2*g*j*m^2 - 6*a^3*b^4*c*d*g*k^1^3 - 6*a*b^4*c^3*e^3*f*j*m + 3*a^3*b^4*c \\
& *e*g*j^1^3 + 3*a^3*b^4*c*e*f*k^1^3 + 3*a^3*b^4*c*d*h*j^1^3 + 3*a^3*b^4*c*d \\
& *e^1^3*m + 3*a*b^4*c^3*e^3*h*j*k + 3*a*b^4*c^3*e^3*g*j^1 + 3*a*b^4*c^3*e^3* \\
& f*k*k^1 + 3*a*b^4*c^3*d*e^3*l*m - 36*a^3*c^5*d*e*g*h^2*k + 30*a^2*b*c^5*d^3*f \\
& *j*m - 30*a*b^3*c^4*d^3*f*j*m + 24*a^3*b*c^4*d*g^3*j^1 - 24*a^2*b*c^5*d^3*h \\
& *j*k - 24*a^2*b*c^5*d^3*f*k*k^1 - 24*a^2*b*c^5*d^3*e*k*m + 15*a*b^3*c^4*d^3*h \\
& *j*k + 15*a*b^3*c^4*d^3*f*k*k^1 + 15*a*b^3*c^4*d^3*e*k*m - 12*a^3*b*c^4*e*g^3 \\
& *j*k + 12*a^2*b*c^5*d^3*g*j^1 + 6*a*b^3*c^4*d^3*g*j^1 + 3*a^3*b^4*c*f*g*h^1 \\
& ^3 + 3*a*b^4*c^3*e^3*g*h*m + 24*a^3*b*c^4*d*g^3*h*m - 12*a^3*b*c^4*f*g^3*h* \\
& k + 12*a^2*b*c^5*d^3*g*h*m - 9*a^3*b^4*c*d*e*j*m^3 + 6*a^3*b*c^4*e*g^3*h^1 \\
& + 6*a*b^3*c^4*d^3*g*h*m + 36*a^3*c^5*d*e*f*g*k^2 - 36*a^2*c^6*d^2*e*f*g*k - \\
& 24*a^4*b*c^3*d*e*j^1^3 - 18*a^3*b^4*c*e*f*g*m^3 - 18*a^3*b^4*c*d*f*h*m^3 - \\
& 3*a^2*b^5*c*d*e*j^1^3 - 3*a*b^3*c^4*d*e^3*j^1 - 24*a^4*b*c^3*e*f*g^1^3 + 2 \\
& 4*a^3*b*c^4*d*f*h^3*l + 12*a^4*b*c^3*d*f*h^1^3 - 12*a^3*b*c^4*e*g*h^3*j - 1 \\
& 2*a^3*b*c^4*e*f*h^3*k - 12*a^3*b*c^4*d*e*h^3*m - 12*a*b^2*c^5*d^3*e*j*k + 6 \\
& *a^3*b*c^4*d*g*h^3*k - 3*a^2*b^5*c*e*f*g^1^3 - 3*a^2*b^5*c*d*f*h^1^3 - 3*a* \\
& b^3*c^4*e^3*g*h*j - 3*a*b^3*c^4*e^3*f*h*k - 3*a*b^3*c^4*e^3*f*g^1 - 3*a*b^3
\end{aligned}$$

$$\begin{aligned}
& *c^4*d*e^3*h*m + 24*a*b^2*c^5*d^3*e*h*1 - 12*a*b^2*c^5*d^3*f*h*k - 3*a*b^2*c^5*d^3*g*h*j - 3*a*b^2*c^5*d^3*f*g*1 - 3*a*b^2*c^5*d^3*e*g*m + 48*a^4*b*c^3*d*e*f*m^3 + 24*a^2*b*c^5*d*e*f^3*m + 21*a^2*b^5*c*d*e*f*m^3 - 12*a^2*b*c^5*e*f^3*g*j - 12*a^2*b*c^5*d*f^3*h*j - 9*a*b^3*c^4*d*e*f^3*m + 6*a^2*b*c^5*d*f^3*g*k + 12*a*b^2*c^5*d*e^3*f*1 - 6*a*b^2*c^5*d*e^3*g*k + 3*a*b^2*c^5*d*e^3*h*j - 24*a^3*b*c^4*d*e*f*k^3 - 12*a^2*b*c^5*d*e*g^3*j - 3*a*b^5*c^2*d*e*f*k^3 + 3*a*b^2*c^5*e^3*f*g*h - 12*a^2*b*c^5*d*f*g^3*h + 9*a*b^2*c^5*d*e*f^3*j + 9*a*b*c^6*d^2*e^2*f*j + 3*a*b^4*c^3*d*e*f*j^3 + 9*a*b*c^6*d^2*e^2*g*h + 9*a*b*c^6*d^2*e*f^2*h - 3*a*b^3*c^4*d*e*f*h^3 - 18*a*b*c^6*d^2*e*f*g^2 + 9*a*b*c^6*d*e^2*f^2*g + 3*a*b^2*c^5*d*e*f*g^3 - 36*a^4*b^2*c^2*e^2*k*1^2*m - 9*a^4*b^2*c^2*g^2*j^2*k*m + 45*a^3*b^3*c^2*d^2*k^2*1*m + 36*a^4*b^2*c^2*e^2*j*1*m^2 + 9*a^4*b^2*c^2*g^2*j*k^2*1 + 9*a^3*b^3*c^2*e^2*j^2*1*m + 9*a^4*b^2*c^2*g^2*h*k^2*m - 9*a^4*b^2*c^2*f^2*h*1^2*m - 9*a^3*b^3*c^2*f^2*j^2*k*1 - 45*a^3*b^3*c^2*d^2*j*k*m^2 + 36*a^3*b^2*c^3*d^2*j^2*k*m + 18*a^4*b^2*c^2*f^2*h*k*m^2 + 18*a^4*b^2*c^2*f^2*g*1*m^2 - 9*a^4*b^2*c^2*g^2*h*k*1^2 - 9*a^4*b^2*c^2*f*h^2*k^2*m - 9*a^4*b^2*c^2*f*g^2*1^2*m - 9*a^4*b^2*c^2*e*j^2*k^2*1 - 9*a^4*b^2*c^2*d*j^2*k^2*m - 9*a^3*b^3*c^2*e^2*j*k*1^2 - 9*a^2*b^4*c^2*d^2*j^2*k*m - 36*a^3*b^2*c^3*d^2*j*k^2*1 - 27*a^3*b^2*c^3*e^2*h^2*k*m + 9*a^4*b^2*c^2*g*h^2*j*1^2 + 9*a^4*b^2*c^2*f*h^2*k*1^2 - 9*a^4*b^2*c^2*f*g^2*k*m^2 - 9*a^4*b^2*c^2*e*g^2*1*m^2 - 9*a^4*b^2*c^2*d*j^2*k*1^2 + 9*a^4*b^2*c^2*d*h^2*1^2*m - 9*a^3*b^3*c^2*e^2*g*1^2*m + 9*a^2*b^4*c^2*e^2*h^2*k*m + 9*a^2*b^4*c^2*d^2*j*k^2*1 - 45*a^3*b^3*c^2*e^2*h*j*m^2 + 36*a^4*b^2*c^2*e*h^2*j*m^2 + 36*a^3*b^2*c^3*e^2*h*j^2*m - 36*a^3*b^2*c^3*d^2*h*k^2*m + 36*a^2*b^3*c^3*d^2*g^2*1*m - 9*a^4*b^2*c^2*f*h*j^2*1^2 - 9*a^4*b^2*c^2*d*h^2*k*m^2 + 9*a^3*b^3*c^2*f^2*h*j*1^2 + 9*a^3*b^3*c^2*e^2*f*1*m^2 + 9*a^3*b^3*c^2*e*h^2*j^2*m - 9*a^3*b^2*c^3*f^2*h^2*j*1 - 9*a^2*b^4*c^2*e^2*h*j^2*m + 9*a^2*b^4*c^2*d^2*h*k^2*m + 36*a^3*b^2*c^3*d^2*h*k*1^2 - 27*a^4*b^2*c^2*e*g*j^2*m^2 - 27*a^4*b^2*c^2*d*h*j^2*m^2 - 9*a^4*b^2*c^2*d*h*k^2*1^2 - 9*a^3*b^3*c^2*e*f^2*k*m^2 - 9*a^3*b^3*c^2*d*f^2*1*m^2 + 9*a^3*b^2*c^3*f^2*h*j^2*k + 9*a^3*b^2*c^3*f^2*g*j^2*1 - 9*a^3*b^2*c^3*e^2*g*k^2*1 - 9*a^3*b^2*c^3*e^2*f*k^2*m - 9*a^3*b^2*c^3*d^2*f*1^2*m - 9*a^2*b^4*c^2*d^2*h*k*1^2 + 9*a^2*b^3*c^3*d^2*h^2*k*1 - 81*a^3*b^2*c^3*d^2*g*j*m^2 + 54*a^2*b^4*c^2*d^2*g*j*m^2 - 45*a^3*b^3*c^2*d*g^2*j*m^2 - 45*a^2*b^3*c^3*d^2*g*j^2*m + 36*a^3*b^2*c^3*d^2*f*k*m^2 + 36*a^3*b^2*c^3*d*g^2*j^2*m + 18*a^3*b^2*c^3*e^2*g*j*1^2 + 18*a^3*b^2*c^3*e^2*f*k*1^2 + 18*a^3*b^2*c^3*d*e^2*1^2*m - 9*a^4*b^2*c^2*d*f*k^2*m^2 - 9*a^3*b^3*c^2*f^2*g*h*m^2 - 9*a^3*b^3*c^2*d*h^2*j*1^2 - 9*a^3*b^2*c^3*f^2*g*j*k^2 - 9*a^3*b^2*c^3*d^2*e*1*m^2 - 9*a^3*b^2*c^3*f*g^2*h^2*m - 9*a^3*b^2*c^3*e*g^2*j^2*1 - 9*a^3*b^2*c^3*e*f^2*k^2*1 - 9*a^2*b^4*c^2*d^2*f*k*m^2 - 9*a^2*b^4*c^2*d*g^2*j^2*m - 9*a^2*b^3*c^3*e^2*h^2*j*k - 9*a^2*b^2*c^4*d^2*f^2*k*m - 27*a^2*b^2*c^4*d^2*g^2*j*1 - 9*a^3*b^3*c^2*f*g*h^2*1^2 + 9*a^3*b^2*c^3*e*g^2*j*k^2 - 9*a^3*b^2*c^3*e*f^2*j*1^2 - 9*a^3*b^2*c^3*d*h^2*j^2*k - 9*a^3*b^2*c^3*d*f^2*k*1^2 - 9*a^3*b^2*c^3*d*e^2*k*m^2 - 9*a^2*b^3*c^3*e^2*g*h^2*m - 9*a^2*b^3*c^3*d^2*h*j*k^2 - 9*a^2*b^3*c^3*d^2*f*k^2*1 - 9*a^2*b^3*c^3*d^2*e*k^2*m + 36*a^3*b^3*c^2*d*e*j^2*m^2 + 36*a^3*b^2*c^3*e^2*f*h*m^2 - 27*a^2*b^2*c^4*d^2*g^2*h*m + 9*a^3*b^3*c^2*e*f*h^2*m^2 + 9*a^3*b^2*c^3*f*
\end{aligned}$$

$$\begin{aligned}
&g^2*h*k^2 - 9*a^2*b^4*c^2*e^2*f*h*m^2 + 9*a^2*b^3*c^3*d^2*e*k*l^2 - 9*a^2*b^2*c^4*e^2*f^2*h*m - 45*a^2*b^3*c^3*d^2*g*h*l^2 - 36*a^3*b^2*c^3*e*f^2*g*m^2 + 36*a^3*b^2*c^3*d*g^2*h*l^2 - 36*a^3*b^2*c^3*d*f^2*h*m^2 + 36*a^2*b^2*c^4*d^2*g*h^2*l - 9*a^3*b^2*c^3*e*g*h^2*k^2 + 9*a^2*b^4*c^2*e*f^2*g*m^2 - 9*a^2*b^4*c^2*d*g^2*h*l^2 + 9*a^2*b^4*c^2*d*f^2*h*m^2 + 9*a^2*b^3*c^3*e^2*g*h*k^2 + 9*a^2*b^3*c^3*d*g^2*h^2*l - 9*a^2*b^3*c^3*d*e^2*j*l^2 - 9*a^2*b^2*c^4*e^2*g^2*h*k - 9*a^2*b^2*c^4*e^2*f*g^2*m - 9*a^2*b^2*c^4*d^2*f*j^2*k - 9*a^2*b^2*c^4*d^2*f*h^2*m - 9*a^2*b^2*c^4*d^2*e*j^2*l - 45*a^2*b^3*c^3*d^2*f*g*m^2 + 36*a^3*b^2*c^3*d*f*g^2*m^2 - 27*a^3*b^2*c^3*d*f*h^2*l^2 + 18*a^2*b^2*c^4*d^2*e*j*k^2 + 9*a^2*b^4*c^2*d*f*h^2*l^2 - 9*a^2*b^4*c^2*d*f*g^2*m^2 - 9*a^2*b^3*c^3*e^2*f*g*l^2 + 9*a^2*b^2*c^4*e^2*g*h^2*j + 9*a^2*b^2*c^4*e^2*f*h^2*k - 9*a^2*b^2*c^4*e*f^2*g^2*l - 9*a^2*b^2*c^4*d*f^2*g^2*m - 9*a^2*b^2*c^4*d*e^2*j^2*k + 9*a^2*b^2*c^4*d*e^2*h^2*m + 18*a^4*b^2*c^2*f^2*j^2*m^2 + 18*a^3*b^2*c^3*e^2*h^2*l^2 - 9*a^2*b^4*c^2*e^2*h^2*l^2 + 18*a^2*b^2*c^4*d^2*g^2*k^2 + 12*a^6*c^2*j^3*k*l*m + 3*a^6*b^2*j*k*l*m^3 - 12*a^6*c^2*g*k^3*l*m - 12*a^5*c^3*g^3*k*l*m - 24*a^6*c^2*e*k*l^3*m - 24*a^4*c^4*e^3*k*l*m + 12*a^6*c^2*h*j*k*l^3 + 12*a^6*c^2*f*j*l^3*m + 12*a^5*c^3*h^3*j*k*l - 3*a^5*b^3*h*j*k*m^3 - 3*a^5*b^3*g*j*l*m^3 - 3*a^5*b^3*f*k*l*m^3 + 12*a^6*c^2*g*h*l^3*m + 12*a^5*c^3*g*h^3*l*m - 12*a^6*c^2*e*j*k*m^3 - 12*a^6*c^2*d*j*l*m^3 - 12*a^5*c^3*f*j^3*k*l - 12*a^5*c^3*e*j^3*k*m - 12*a^5*c^3*d*j^3*l*m - 12*a^4*c^4*f^3*j*k*l + 24*a^6*c^2*f*h*k*m^3 + 24*a^6*c^2*f*g*l*m^3 + 24*a^4*c^4*f^3*h*k*m + 24*a^4*c^4*f^3*g*l*m - 12*a^6*c^2*g*h*j*m^3 - 12*a^6*c^2*e*h*l*m^3 - 12*a^5*c^3*g*h*j^3*m + 3*b^6*c^2*d^3*j*k*l + 3*a^4*b^4*e*j*k*m^3 + 3*a^4*b^4*d*j*l*m^3 - 24*a^5*c^3*d*j*k^3*l - 24*a^3*c^5*d^3*j*k*l - 6*a^4*b^4*e*h*l*m^3 + 3*b^6*c^2*d^3*h*k*m + 3*b^6*c^2*d^3*g*l*m + 3*a^6*b*c*j^2*l^3*m + 3*a^4*b^4*g*h*j*m^3 + 3*a^4*b^4*f*h*k*m^3 + 3*a^4*b^4*f*g*l*m^3 - 24*a^5*c^3*d*h*k^3*m - 24*a^3*c^5*d^3*h*k*m + 12*a^5*c^3*g*h*j*k^3 + 12*a^5*c^3*f*g*k^3*l + 12*a^5*c^3*e*h*k^3*l + 12*a^5*c^3*e*g*k^3*m + 12*a^4*c^4*g^3*h*j*k + 12*a^4*c^4*f*g^3*k*l + 12*a^4*c^4*f*g^3*j*m + 12*a^4*c^4*e*g^3*k*m + 12*a^4*c^4*d*g^3*l*m + 12*a^3*c^5*d^3*g*l*m + 3*a^6*b*c*j*k^3*m^2 - 9*a^6*b*c*h^2*l*m^3 - 3*a^5*b*c^2*j^4*k*l + 24*a^5*c^3*e*g*j*l^3 + 24*a^5*c^3*e*f*k*l^3 + 24*a^5*c^3*d*e*l^3*m + 24*a^3*c^5*e^3*g*j*l + 24*a^3*c^5*e^3*f*k*l + 24*a^3*c^5*d*e^3*l*m - 12*a^5*c^3*d*h*j*l^3 - 12*a^5*c^3*d*g*k*l^3 - 12*a^4*c^4*e*h^3*j*k - 12*a^4*c^4*d*h^3*j*l - 12*a^3*c^5*e^3*h*j*k - 12*a^3*c^5*e^3*f*j*m + 9*a^4*b*c^3*g^4*l*m + 6*b^5*c^3*d^3*f*j*m + 6*a^3*b^5*d*g*k*m^3 - 3*b^5*c^3*d^3*h*j*k - 3*b^5*c^3*d^3*g*j*l - 3*b^5*c^3*d^3*f*k*l - 3*b^5*c^3*d^3*e*k*m - 3*a^3*b^5*e*g*j*m^3 - 3*a^3*b^5*e*f*k*m^3 - 3*a^3*b^5*d*h*j*m^3 - 3*a^3*b^5*d*f*l*m^3 - 12*a^5*c^3*f*g*h*l^3 - 12*a^4*c^4*f*g*h^3*l - 12*a^4*c^4*e*g*h^3*m - 12*a^3*c^5*e^3*g*h*m - 9*a^6*b*c*g*k^2*m^3 - 3*b^5*c^3*d^3*g*h*m + 3*a^6*b*c*f*l^3*m^2 - 3*a^3*b^5*f*g*h*m^3 + 12*a^5*c^3*d*e*j*m^3 + 12*a^4*c^4*e*f*j^3*k + 12*a^4*c^4*d*g*j^3*k + 12*a^4*c^4*d*f*j^3*l + 12*a^4*c^4*d*e*j^3*m + 12*a^3*c^5*e*f^3*j*k + 12*a^3*c^5*d*f^3*j*l - 9*a^6*b*c*e*l^2*m^3 - 24*a^5*c^3*e*f*g*m^3 - 24*a^5*c^3*d*f*h*m^3 - 24*a^3*c^5*e*f^3*g*m - 24*a^3*c^5*d*f^3*h*m - 15*a^2*b*c^5*d^4*l*m + 15*a*b^3*c^4*d^4*l*m + 12*a^4*c^4*f*g*h*j^3 + 12*a^3*c^5*f^3*g*h*j + 12*a^3*c^5*e*f^3*h*l + 9*
\end{aligned}$$

$$\begin{aligned}
& a^3 b^3 c^4 f^4 k^3 l - 9 a^3 b^3 c^4 f^4 j^3 m + 3 b^4 c^4 d^3 e^3 j^3 k + 3 a^5 b^2 c^4 \\
& * g^3 j^3 l^4 + 3 a^5 b^2 c^4 f^3 k^3 l^4 + 3 a^5 b^2 c^4 d^3 l^4 m - 3 a^5 b^3 c^2 h^3 j^3 k^4 \\
& - 3 a^5 b^3 c^2 f^3 k^4 l - 3 a^5 b^3 c^2 e^3 k^4 m - 3 a^4 b^3 c^3 h^4 j^3 k + 3 a^2 b^6 \\
& ^6 d^3 e^3 j^3 m^3 + 3 a^2 b^4 c^3 e^4 k^3 m + 24 a^4 c^4 d^3 e^3 j^3 k^3 + 24 a^2 c^6 d^3 \\
& e^3 j^3 k - 6 b^4 c^4 d^3 e^3 h^3 l + 3 b^4 c^4 d^3 g^3 h^3 j + 3 b^4 c^4 d^3 f^3 h^3 k + 3 \\
& b^4 c^4 d^3 f^3 g^3 l + 3 b^4 c^4 d^3 e^3 g^3 m - 3 a^4 b^3 c^3 g^3 h^4 m + 3 a^2 b^6 \\
& e^3 f^3 g^3 m^3 + 3 a^2 b^6 d^3 f^3 h^3 m^3 - 3 a^2 b^6 c^3 e^3 j^3 m^2 + 24 a^4 c^4 d^3 f^3 h^3 k^3 \\
& + 24 a^2 c^6 d^3 f^3 h^3 k - 12 a^4 c^4 e^3 f^3 g^3 k^3 - 12 a^3 c^5 e^3 f^3 g^3 k - 12 \\
& a^3 c^5 d^3 g^3 h^3 j - 12 a^3 c^5 d^3 f^3 g^3 l - 12 a^3 c^5 d^3 e^3 g^3 m - 12 a^2 c^6 \\
& d^3 g^3 h^3 j - 12 a^2 c^6 d^3 f^3 g^3 l - 12 a^2 c^6 d^3 e^3 h^3 l - 12 a^2 c^6 d^3 \\
& e^3 g^3 m - 12 a^2 b^2 c^5 d^4 j^3 l + 9 a^5 b^3 c^2 d^3 j^3 l^4 + 9 a^2 b^3 c^5 e^4 j^3 k - \\
& 3 a^4 b^3 c^3 d^3 j^3 l^4 - 3 a^4 b^3 c^3 e^3 j^4 k - 3 a^4 b^3 c^3 d^3 j^4 l - 3 a^2 b^3 \\
& c^4 e^4 j^3 k - 24 a^4 c^4 d^3 e^3 f^3 l^3 - 24 a^2 c^6 d^3 e^3 f^3 l - 12 a^5 b^2 c^3 e^3 \\
& g^3 m^4 - 12 a^5 b^2 c^3 d^3 h^3 m^4 + 12 a^3 c^5 d^3 e^3 h^3 j + 12 a^2 c^6 d^3 e^3 h^3 j \\
& + 12 a^2 c^6 d^3 e^3 g^3 k - 12 a^2 b^2 c^5 d^4 h^3 m + 9 a^5 b^3 c^2 f^3 g^3 l^4 - 9 a^5 \\
& b^3 c^2 e^3 h^3 l^4 - 9 a^2 b^3 c^5 e^4 h^3 l + 9 a^2 b^3 c^5 e^4 g^3 m + 6 a^4 b^3 c^3 e^3 \\
& h^3 l^4 + 6 a^2 b^3 c^4 e^4 h^3 l - 3 b^3 c^5 d^3 e^3 g^3 j - 3 b^3 c^5 d^3 e^3 f^3 k - 3 \\
& a^4 b^3 c^3 f^3 g^3 l^4 - 3 a^4 b^3 c^3 g^3 h^3 j^4 - 3 a^3 b^3 c^4 g^4 h^3 j - 3 a^3 b^3 c^4 \\
& f^3 g^4 l - 3 a^3 b^3 c^4 e^3 g^4 m - 3 a^2 b^3 c^4 e^4 g^3 m + 12 a^3 c^5 e^3 f^3 g^3 h^3 \\
& + 12 a^2 c^6 e^3 f^3 g^3 h - 3 b^3 c^5 d^3 f^3 g^3 h - 12 a^3 c^5 d^3 e^3 f^3 j^3 - 12 \\
& a^2 c^6 d^3 e^3 f^3 j - 3 a^2 b^6 c^3 d^2 g^3 l^3 - 15 a^5 b^3 c^2 d^3 e^3 m^4 + 15 a^4 b^3 \\
& c^3 d^3 e^3 m^4 + 9 a^4 b^3 c^3 e^3 f^3 k^4 - 9 a^4 b^3 c^3 d^3 g^3 k^4 + 3 a^3 b^4 c^3 d^3 f^3 l^4 \\
& - 3 a^3 b^3 c^4 d^3 h^4 j - 3 a^2 b^3 c^5 e^3 f^4 k - 3 a^2 b^3 c^5 d^3 f^4 l + 3 a^2 b^3 \\
& c^5 e^4 g^3 j + 3 a^2 b^2 c^5 e^4 f^3 k + 3 a^2 b^2 c^5 d^3 e^4 m - 9 a^2 b^3 c^6 d^3 \\
& e^2 l + 3 b^2 c^6 d^3 e^3 f^3 g - 3 a^3 b^3 c^4 f^3 g^3 h^4 - 3 a^2 b^3 c^5 f^4 g^3 h + 1 \\
& 2 a^2 c^6 d^3 e^3 f^3 g^3 - 9 a^2 b^3 c^6 d^3 f^2 j + 3 a^2 b^3 c^6 d^2 e^3 k + 9 a^3 b^3 c^4 \\
& d^3 e^3 j^4 - 3 a^2 b^3 c^5 e^3 f^3 g^4 - 9 a^2 b^3 c^6 d^3 e^3 h^2 + 3 a^2 b^3 c^6 d^2 f^3 \\
& g + 3 a^2 b^3 c^6 d^3 e^3 g^2 - 3 a^4 b^2 c^2 h^3 j^2 m + 12 a^4 b^2 c^2 g^3 j^3 m^2 \\
& - 3 a^4 b^2 c^2 f^2 k^3 m + 3 a^3 b^3 c^2 g^3 j^2 m - 9 a^3 b^4 c^3 f^2 j^2 \\
& m^2 + 9 a^3 b^3 c^2 f^2 j^3 m - 6 a^3 b^3 c^2 f^3 j^3 m^2 - 6 a^3 b^2 c^3 f^3 \\
& j^2 m - 3 a^2 b^4 c^2 f^3 j^2 m - 27 a^4 b^2 c^2 d^2 k^3 m^3 - 27 a^3 b^2 c^3 \\
& e^3 j^3 m^2 + 18 a^2 b^4 c^2 e^3 j^3 m^2 - 15 a^2 b^3 c^3 e^3 j^2 m + 12 a^4 \\
& b^2 c^2 f^2 j^3 l^3 + 3 a^3 b^3 c^2 e^2 k^3 l + 42 a^2 b^3 c^3 d^3 j^3 m^2 - 2 \\
& 7 a^2 b^2 c^4 d^3 j^2 m - 15 a^3 b^3 c^2 d^2 k^3 l^3 - 3 a^4 b^2 c^2 f^3 j^2 k^3 \\
& - 3 a^4 b^2 c^2 f^3 h^3 m^2 + 3 a^3 b^3 c^2 g^3 h^3 l^2 + 3 a^3 b^3 c^2 f^2 j^3 \\
& k^3 - 3 a^3 b^2 c^3 g^3 h^2 l - 3 a^3 b^2 c^3 e^2 j^3 l - 27 a^4 b^2 c^2 e^2 \\
& h^3 m^3 + 12 a^3 b^2 c^3 f^3 h^3 l^2 + 3 a^3 b^3 c^2 f^3 g^3 m^2 - 3 a^2 b^4 c^2 \\
& f^3 h^3 l^2 + 3 a^2 b^3 c^3 f^3 h^2 l + 9 a^3 b^3 c^2 e^3 h^3 l^2 + 9 a^2 b^3 \\
& c^3 e^2 h^3 l - 6 a^4 b^2 c^2 e^3 h^2 l^3 - 6 a^3 b^3 c^2 e^2 h^3 l^3 - 6 a^2 \\
& b^3 c^3 e^3 h^3 l^2 - 6 a^2 b^2 c^4 e^3 h^2 l + 3 a^2 b^3 c^3 d^2 j^3 k + 42 \\
& a^3 b^3 c^2 d^2 g^3 m^3 - 27 a^4 b^2 c^2 d^3 g^2 m^3 - 27 a^2 b^2 c^4 d^3 h^3 l^2 \\
& - 15 a^2 b^3 c^3 e^3 f^3 m^2 + 12 a^3 b^2 c^3 e^2 h^3 k^3 + 3 a^3 b^3 c^2 e^3 h^3 \\
& ^2 k^3 - 3 a^3 b^2 c^3 e^3 g^3 l^2 - 3 a^2 b^4 c^2 e^2 h^3 k^3 + 3 a^2 b^3 c^3 f^3 \\
& g^3 k^2 - 3 a^2 b^2 c^4 f^3 g^2 k - 27 a^3 b^2 c^3 d^2 g^3 l^3 - 27 a^2 b^2 \\
& c^4 d^3 f^3 m^2 + 18 a^2 b^4 c^2 d^2 g^3 l^3 - 15 a^3 b^3 c^2 d^3 g^2 l^3 + 12 a
\end{aligned}$$

$$\begin{aligned}
& ^2*b^2*c^4*e^3*g*k^2 - 3*a^3*b^2*c^3*e*h^2*j^3 + 3*a^2*b^3*c^3*e^2*h*j^3 + \\
& 3*a^2*b^3*c^3*e*f^3*l^2 - 3*a^2*b^2*c^4*d^2*h^3*k + 9*a^2*b^3*c^3*d*g^3*k^2 \\
& - 9*a*b^4*c^3*d^2*g^2*k^2 - 6*a^3*b^2*c^3*d*g^2*k^3 - 6*a^2*b^3*c^3*d^2*g* \\
& k^3 - 3*a^2*b^4*c^2*d*g^2*k^3 + 12*a^2*b^2*c^4*d^2*g*j^3 + 3*a^2*b^3*c^3*d* \\
& g^2*j^3 - 3*a^2*b^2*c^4*d*f^3*k^2 - 3*a^2*b^2*c^4*d*g^2*h^3 + 12*a^7*c*j*k* \\
& l*m^3 - 3*b^7*c*d^3*k*l*m - 3*a^6*b*c*k^4*l*m - 3*a^6*b*c*j*k*l^4 - 3*a^6*b \\
& *c*g*l^4*m - 9*a^6*b*c*f*j*m^4 + 9*a^6*b*c*e*k*m^4 + 9*a^6*b*c*d*l*m^4 + 9* \\
& a^6*b*c*g*h*m^4 - 3*a*b^7*d*e*f*m^3 + 9*a*b*c^6*d^4*h*j - 9*a*b*c^6*d^4*g*k \\
& + 9*a*b*c^6*d^4*f*l + 9*a*b*c^6*d^4*e*m + 12*a*c^7*d^3*e*f*g - 3*a*b*c^6*d \\
& *e^4*j - 3*a*b*c^6*e^4*f*g - 3*a*b*c^6*d*e*f^4 + 18*a^6*c^2*h^2*j*l*m^2 - 1 \\
& 8*a^6*c^2*h*j^2*l^2*m + 18*a^6*c^2*f*k^2*l^2*m + 36*a^5*c^3*e^2*k*l^2*m + 1 \\
& 8*a^6*c^2*g*j*k^2*m^2 + 18*a^6*c^2*e*k^2*l*m^2 + 18*a^5*c^3*g^2*j^2*k*m + 1 \\
& 8*a^6*c^2*e*j*l^2*m^2 + 18*a^6*c^2*d*k*l^2*m^2 - 18*a^5*c^3*e^2*j*l*m^2 - 1 \\
& 8*a^6*c^2*f*h*l^2*m^2 + 18*a^5*c^3*f^2*h*l^2*m - 36*a^5*c^3*f^2*h*k*m^2 - 3 \\
& 6*a^5*c^3*f^2*g*l*m^2 + 18*a^5*c^3*g^2*h*k*l^2 - 18*a^5*c^3*g*h^2*k^2*l + 1 \\
& 8*a^5*c^3*f*h^2*k^2*m + 18*a^5*c^3*f*g^2*l^2*m + 18*a^5*c^3*e*j^2*k^2*l + 1 \\
& 8*a^5*c^3*d*j^2*k^2*m - 18*a^4*c^4*d^2*j^2*k*m + 36*a^4*c^4*d^2*j*k^2*l + 1 \\
& 8*a^5*c^3*f*g^2*k*m^2 + 18*a^5*c^3*e*g^2*l*m^2 + 18*a^5*c^3*d*j^2*k*l^2 - 1 \\
& 8*a^4*c^4*f^2*g^2*k*m + 36*a^4*c^4*d^2*h*k^2*m + 18*a^5*c^3*f*h*j^2*l^2 - 1 \\
& 8*a^5*c^3*e*h^2*j*m^2 + 18*a^5*c^3*d*h^2*k*m^2 + 18*a^4*c^4*f^2*h^2*j*l - 1 \\
& 8*a^4*c^4*e^2*h*j^2*m - 18*a^5*c^3*e*g*k^2*l^2 + 18*a^5*c^3*d*h*k^2*l^2 + 1 \\
& 8*a^4*c^4*e^2*g*k^2*l + 18*a^4*c^4*e^2*f*k^2*m - 18*a^4*c^4*d^2*h*k*l^2 + 1 \\
& 8*a^4*c^4*d^2*f*l^2*m - 36*a^4*c^4*e^2*g*j*l^2 - 36*a^4*c^4*e^2*f*k*l^2 - 3 \\
& 6*a^4*c^4*d*e^2*l^2*m + 18*a^5*c^3*d*f*k^2*m^2 + 18*a^4*c^4*f^2*g*j*k^2 + 1 \\
& 8*a^4*c^4*d^2*g*j*m^2 - 18*a^4*c^4*d^2*f*k*m^2 + 18*a^4*c^4*d^2*e*l*m^2 - 1 \\
& 8*a^4*c^4*f*g^2*j^2*k + 18*a^4*c^4*f*g^2*h^2*m + 18*a^4*c^4*e*g^2*j^2*l + 1 \\
& 8*a^4*c^4*e*f^2*k^2*l - 18*a^4*c^4*d*g^2*j^2*m - 18*a^4*c^4*d*f^2*k^2*m + 1 \\
& 8*a^3*c^5*d^2*f^2*k*m + 3*a^4*b^2*c^2*h^4*k*m - 3*a^3*b^3*c^2*g^4*l*m + 18* \\
& a^4*c^4*e*f^2*j*l^2 + 18*a^4*c^4*d*h^2*j^2*k + 18*a^4*c^4*d*f^2*k*l^2 + 18* \\
& a^4*c^4*d*e^2*k*m^2 - 18*a^3*c^5*e^2*f^2*j*l + 12*a^5*b^2*c*g^2*k*m^3 - 9*a \\
& ^5*b*c^2*h^3*j*m^2 - 9*a^5*b*c^2*f^2*l^3*m + 3*a^5*b*c^2*h^2*k^3*l + 3*a^4*b \\
& ^3*c*h^3*j*m^2 + 3*a^4*b^3*c*f^2*l^3*m - 18*a^4*c^4*e^2*f*h*m^2 + 18*a^3*c \\
& ^5*e^2*f^2*h*m + 15*a^5*b*c^2*e^2*l*m^3 - 15*a^4*b^3*c*e^2*l*m^3 - 9*a^5*b* \\
& c^2*g^2*k*l^3 - 9*a^4*b*c^3*g^3*j^2*m - 3*a^5*b^2*c*g*k^2*l^3 + 3*a^5*b*c^2 \\
& *h*j^3*l^2 + 3*a^4*b^3*c*g^2*k*l^3 - 3*a^3*b^4*c*g^3*j*m^2 + 36*a^4*c^4*e*f \\
& ^2*g*m^2 + 36*a^4*c^4*d*f^2*h*m^2 + 18*a^4*c^4*e*g*h^2*k^2 - 18*a^4*c^4*d*g \\
& ^2*h*l^2 - 18*a^4*c^4*d*f*j^2*k^2 + 18*a^3*c^5*e^2*g^2*h*k + 18*a^3*c^5*e^2 \\
& *f*g^2*m - 18*a^3*c^5*d^2*g*h^2*l + 18*a^3*c^5*d^2*f*j^2*k + 18*a^3*c^5*d^2 \\
& *f*h^2*m + 18*a^3*c^5*d^2*e*j^2*l - 12*a^2*b^2*c^4*e^4*k*m + 9*a^4*b^3*c*f* \\
& j^3*m^2 - 9*a^4*b^2*c^2*f*j^4*m - 6*a^5*b^2*c*f*j^2*m^3 + 6*a^5*b*c^2*f^2*j \\
& *m^3 - 6*a^5*b*c^2*f*j^3*m^2 - 6*a^4*b^3*c*f^2*j*m^3 + 6*a^4*b*c^3*f^3*j*m^ \\
& 2 - 6*a^4*b*c^3*f^2*j^3*m + 6*a^2*b^3*c^3*f^4*j*m + 3*a^3*b^2*c^3*g^4*j*l + \\
& 3*a^2*b^5*c*f^3*j*m^2 - 3*a^2*b^3*c^3*f^4*k*l - 36*a^3*c^5*d^2*e*j*k^2 - 1 \\
& 8*a^4*c^4*d*f*g^2*m^2 + 18*a^3*c^5*e*f^2*g^2*l + 18*a^3*c^5*d*f^2*g^2*m + 1 \\
& 8*a^3*c^5*d*e^2*j^2*k + 18*a^3*b^4*c*d^2*k*m^3 + 15*a^3*b*c^4*e^3*j^2*m + 1
\end{aligned}$$

$$\begin{aligned}
& 2*a^5*b^2*c*d*k^2*m^3 - 9*a^5*b*c^2*f*j^2*l^3 - 9*a^4*b*c^3*e^2*k^3*l + 3*a^5*b*c^2*e*k^3*l^2 + 3*a^4*b^3*c*f*j^2*l^3 + 3*a^4*b*c^3*g^2*j^3*k - 3*a^3*b^4*c*f^2*j^1*l^3 + 3*a^3*b^2*c^3*g^4*h*m + 3*a*b^5*c^2*e^3*j^2*m - 36*a^3*c^5*d^2*f*h*k^2 - 21*a^3*b*c^4*d^3*j*m^2 - 21*a*b^5*c^2*d^3*j*m^2 + 18*a^3*c^5*e^2*f*h*j^2 - 18*a^3*c^5*e*f^2*h^2*j + 18*a^3*c^5*d*f^2*h^2*k + 18*a*b^4*c^3*d^3*j^2*m + 15*a^4*b*c^3*d^2*k^1*l^3 - 9*a^5*b*c^2*d*k^2*l^3 - 9*a^4*b*c^3*g^3*h^1*l^2 - 9*a^4*b*c^3*f^2*j*k^3 + 3*a^4*b^3*c*d*k^2*l^3 + 3*a^2*b^5*c*d^2*k^1*l^3 - 18*a^3*c^5*d^2*e*g^1*l^2 + 18*a^3*c^5*d*e^2*h*k^2 + 18*a^3*b^4*c*e^2*h*m^3 - 18*a^2*c^6*d^2*e^2*h*k + 18*a^2*c^6*d^2*e^2*g^1 + 18*a^2*c^6*d^2*e^2*f*m + 15*a^5*b*c^2*e*h^2*m^3 - 15*a^4*b^3*c*e*h^2*m^3 - 9*a^4*b*c^3*f*g^3*m^2 - 9*a^3*b*c^4*f^3*h^2*l + 3*a^4*b^2*c^2*e*j*k^4 + 3*a^4*b*c^3*g*h^3*k^2 + 3*a^3*b*c^4*f^2*g^3*m + 36*a^3*c^5*d*e^2*f^1*l^2 + 18*a^3*c^5*d*f*g^2*j^2 + 18*a^2*c^6*d^2*f^2*g*j + 18*a^2*c^6*d^2*e*f^2*l - 9*a^3*b^2*c^3*e*h^4*l - 9*a^3*b*c^4*d^2*j^3*k + 6*a^4*b*c^3*e^2*h^1*l^3 - 6*a^4*b*c^3*e*h^3*l^2 + 6*a^3*b*c^4*e^3*h^1*l^2 - 6*a^3*b*c^4*e^2*h^3*l + 3*a^4*b^2*c^2*f*h*k^4 + 3*a^4*b*c^3*d*j^3*k^2 - 3*a^3*b^4*c*e*h^2*l^3 + 3*a^2*b^5*c*e^2*h^1*l^3 + 3*a^2*b^2*c^4*f^4*h*k + 3*a^2*b^2*c^4*f^4*g^1 + 3*a*b^5*c^2*e^3*h^1*l^2 - 3*a*b^4*c^3*e^3*h^2*l - 21*a^4*b*c^3*d^2*g*m^3 - 21*a^2*b^5*c*d^2*g*m^3 + 18*a^3*b^4*c*d*g^2*m^3 + 18*a^2*c^6*d*e^2*f^2*k + 18*a*b^4*c^3*d^3*h^1*l^2 + 15*a^3*b*c^4*e^3*f*m^2 + 15*a^2*b*c^5*d^3*h^2*l - 15*a*b^3*c^4*d^3*h^2*l - 9*a^4*b*c^3*e*h^2*k^3 - 9*a^3*b*c^4*f^3*g*k^2 - 9*a^2*b*c^5*e^3*f^2*m + 3*a^3*b*c^4*f^2*h^3*j + 3*a*b^5*c^2*e^3*f*m^2 + 3*a*b^3*c^4*e^3*f^2*m + 18*a*b^4*c^3*d^3*f*m^2 + 15*a^4*b*c^3*d*g^2*l^3 + 12*a*b^2*c^5*d^3*f^2*m - 9*a^3*b*c^4*e^2*h*j^3 - 9*a^3*b*c^4*e*f^3*l^2 - 9*a^2*b*c^5*e^3*g^2*k + 3*a^3*b*c^4*f*g^3*j^2 + 3*a^2*b^5*c*d*g^2*l^3 + 3*a^2*b*c^5*e^2*f^3*l - 3*a*b^4*c^3*e^3*g*k^2 + 3*a*b^3*c^4*e^3*g^2*k + 18*a^2*c^6*d^2*e*g*h^2 - 18*a^2*c^6*d*e^2*g^2*h - 12*a^4*b^2*c^2*d*f^1*l^4 - 9*a^2*b^2*c^4*d*g^4*k + 9*a*b^3*c^4*d^2*g^3*k + 6*a^3*b^3*c^2*d*g*k^4 + 6*a^3*b*c^4*d^2*g*k^3 - 6*a^3*b*c^4*d*g^3*k^2 + 6*a^2*b*c^5*d^3*g*k^2 - 6*a^2*b*c^5*d^2*g^3*k - 6*a*b^3*c^4*d^3*g*k^2 - 6*a*b^2*c^5*d^3*g^2*k - 3*a^3*b^3*c^2*e*f*k^4 + 3*a^3*b^2*c^3*e*g*j^4 + 3*a^3*b^2*c^3*d*h*j^4 + 3*a*b^5*c^2*d^2*g*k^3 + 15*a^2*b*c^5*d^3*e^1*l^2 - 15*a*b^3*c^4*d^3*e^1*l^2 - 9*a^3*b*c^4*d*g^2*j^3 - 9*a^2*b*c^5*e^3*f^2*j - 3*a*b^4*c^3*d^2*g*j^3 + 3*a*b^3*c^4*e^3*f^2*j - 3*a*b^2*c^5*e^3*f^2*j + 12*a*b^2*c^5*d^3*f^2*j - 9*a^2*b*c^5*d*e^3*k^2 + 3*a^2*b*c^5*e^2*g^3*h + 3*a*b^3*c^4*d*e^3*k^2 - 9*a^2*b*c^5*d^2*g*h^3 - 3*a^2*b^3*c^3*d*e^2*j^4 + 3*a^2*b*c^5*e*f^3*h^2 + 3*a*b^3*c^4*d^2*g*h^3 + 3*a^2*b^2*c^4*d*f*h^4 - 9*a^7*c*k^2*l^2*m^2 - 6*a^6*c^2*j^2*k^3*m - 3*a^6*b^2*h^1*l^2*m^3 + 3*a^5*b^3*h^2*l^1*m^3 - 6*a^6*c^2*g^2*k^3*m^3 - 6*a^6*c^2*h*k^3*l^2 + 6*a^5*c^3*h^3*j^2*m + 6*a^6*c^2*g*k^2*l^3 - 6*a^6*c^2*f*k^3*m^2 - 6*a^5*c^3*h^2*j^3*l - 6*a^5*c^3*g^3*j*m^2 + 6*a^5*c^3*f^2*k^3*m + 3*a^5*b^3*g*k^2*m^3 - 3*a^4*b^4*g^2*k^3*m^3 + 12*a^6*c^2*f*j^2*m^3 + 12*a^4*c^4*f^3*j^2*m + 3*a^5*b^3*e^1*l^2*m^3 + 3*a^3*b^5*e^2*l^1*m^3 - 6*a^6*c^2*d*k^2*m^3 - 6*a^5*c^3*f^2*j^1*l^3 + 6*a^5*c^3*d^2*k^3*m^3 - 6*a^5*c^3*g*j^3*k^2 + 6*a^4*c^4*e^3*j*m^2 - 3*b^6*c^2*d^3*j^2*m - 3*a^4*b^4*f^2*j^2*m^3 + 3*a^3*b^5*f^2*j^2*m^3 + 6*a^5*c^3*f^2*j^2*k^3 + 6*a^5*c^3*f*h^3*m^2 - 6*a^5*c^3*e^2*j^3*l^2 + 6*a^4*c^4*g^3*h^2*l - 6*a^4*c^4*f^2*h^3*m + 6*a^4*c^4*e^2*
\end{aligned}$$

$$\begin{aligned}
& j^3*1 + 6*a^3*c^5*d^3*j^2*m - 3*a^4*b^4*d*k^2*m^3 - 3*a^2*b^6*d^2*k*m^3 + 6 \\
& *a^5*c^3*e^2*h*m^3 - 6*a^4*c^4*g^2*h^3*k - 6*a^4*c^4*f^3*h*1^2 + 12*a^5*c^3 \\
& *e*h^2*1^3 + 12*a^3*c^5*e^3*h^2*1 - 3*b^6*c^2*d^3*h*1^2 + 3*b^5*c^3*d^3*h^2 \\
& *1 - 3*a^5*b^2*c*j^4*m^2 + 3*a^3*b^5*e*h^2*m^3 - 3*a^2*b^6*e^2*h*m^3 + 6*a^ \\
& 5*c^3*d*g^2*m^3 - 6*a^4*c^4*e^2*h*k^3 - 6*a^4*c^4*f*h^3*j^2 + 6*a^4*c^4*e*g \\
& ^3*1^2 + 6*a^3*c^5*f^3*g^2*k - 6*a^3*c^5*e^2*g^3*1 + 6*a^3*c^5*d^3*h*1^2 - \\
& 3*b^6*c^2*d^3*f*m^2 - 3*b^4*c^4*d^3*f^2*m + 6*a^4*c^4*d^2*g*1^3 + 6*a^4*c^4 \\
& *e*h^2*j^3 - 6*a^4*c^4*d*h^3*k^2 - 6*a^3*c^5*f^2*g^3*j - 6*a^3*c^5*e^3*g*k^ \\
& 2 + 6*a^3*c^5*d^3*f*m^2 + 6*a^3*c^5*d^2*h^3*k - 6*a^2*c^6*d^3*f^2*m + 4*a^5 \\
& *b^2*c*h^3*m^3 + 3*b^5*c^3*d^3*g*k^2 - 3*b^4*c^4*d^3*g^2*k - 3*a^2*b^6*d*g^ \\
& 2*m^3 + a^5*b*c^2*j^3*k^3 + 12*a^4*c^4*d*g^2*k^3 + 12*a^2*c^6*d^3*g^2*k + 6 \\
& *a^5*b*c^2*h^3*1^3 + 5*a^5*b*c^2*g^3*m^3 - 5*a^4*b^3*c*g^3*m^3 + 3*b^5*c^3*d \\
& ^3*e*1^2 + 3*b^3*c^5*d^3*e^2*1 - 3*a^5*b^2*c*h^2*1^4 + a^4*b^3*c*h^3*1^3 + \\
& 12*a^5*b^2*c*f^2*m^4 - 6*a^3*c^5*d^2*g*j^3 + 6*a^3*c^5*d*f^3*k^2 + 6*a^3*b \\
& ^4*c*f^3*m^3 + 6*a^2*c^6*e^3*f^2*j - 6*a^2*c^6*d^2*f^3*k - 3*b^4*c^4*d^3*f* \\
& j^2 + 3*b^3*c^5*d^3*f^2*j - 3*a^2*b^2*c^4*f^5*m - 7*a^4*b*c^3*e^3*m^3 - 7*a \\
& ^2*b^5*c*e^3*m^3 + 6*a^4*b*c^3*g^3*k^3 - 6*a^3*c^5*e*g^3*h^2 - 6*a^2*c^6*d^ \\
& 3*f*j^2 + 5*a^4*b*c^3*f^3*1^3 + a^4*b*c^3*h^3*j^3 + a^2*b^5*c*f^3*1^3 + 6*a \\
& ^3*c^5*d*g^2*h^3 - 6*a^2*c^6*e^2*f^3*h - 3*a^3*b^4*c*e^2*1^4 - 3*a*b^4*c^3* \\
& e^4*1^2 - 7*a^3*b*c^4*d^3*1^3 - 7*a*b^5*c^2*d^3*1^3 + 6*a^3*b*c^4*f^3*j^3 + \\
& 5*a^3*b*c^4*e^3*k^3 + 3*b^3*c^5*d^3*e*h^2 - 3*b^2*c^6*d^3*e^2*h + a*b^5*c^ \\
& 2*e^3*k^3 + 12*a*b^2*c^5*d^4*k^2 - 6*a^2*c^6*d*f^3*g^2 + 6*a*b^4*c^3*d^3*k^ \\
& 3 - 3*a^4*b^2*c^2*d*k^5 + a^3*b*c^4*g^3*h^3 + 5*a^2*b*c^5*d^3*j^3 - 5*a*b^3 \\
& *c^4*d^3*j^3 - 9*a*c^7*d^2*e^2*f^2 + 6*a^2*b*c^5*e^3*h^3 - 3*a*b^2*c^5*e^4* \\
& h^2 + a^2*b*c^5*f^3*g^3 + a*b^3*c^4*e^3*h^3 + 4*a*b^2*c^5*d^3*h^3 - 3*a*b^2 \\
& *c^5*d^2*g^4 - 6*a^7*c*j*1^3*m^2 + 6*a^7*c*h*1^2*m^3 + 6*a^6*c^2*j*k^4*1 + \\
& 6*a^6*c^2*h*k^4*m - 6*a^5*c^3*h^4*k*m + 3*a^6*b^2*h*k*m^4 + 3*a^6*b^2*g*1*m \\
& ^4 - 3*b^5*c^3*d^4*1*m - 6*a^6*c^2*g*j*1^4 - 6*a^6*c^2*f*k*1^4 - 6*a^6*c^2* \\
& d*1^4*m + 6*a^5*c^3*h*j^4*k + 6*a^5*c^3*g*j^4*1 + 6*a^5*c^3*f*j^4*m - 6*a^4 \\
& *c^4*g^4*j*1 + 6*a^3*c^5*e^4*k*m + 6*a^5*b^3*f*j*m^4 - 6*a^4*c^4*g^4*h*m + \\
& 3*b^7*c*d^3*j*m^2 - 3*a^5*b^3*e*k*m^4 - 3*a^5*b^3*d*1*m^4 + 3*b^4*c^4*d^4*j \\
& *1 - 3*a^5*b^3*g*h*m^4 - 6*a^5*c^3*e*j*k^4 + 6*a^2*c^6*d^4*j*1 + 3*b^4*c^4*d \\
& ^4*h*m + 6*a^6*c^2*e*g*m^4 + 6*a^6*c^2*d*h*m^4 + 6*a^6*b*c*j^3*m^3 - 6*a^5 \\
& *c^3*f*h*k^4 + 6*a^4*c^4*g*h^4*j + 6*a^4*c^4*f*h^4*k + 6*a^4*c^4*e*h^4*1 + \\
& 6*a^4*c^4*d*h^4*m - 6*a^3*c^5*f^4*h*k - 6*a^3*c^5*f^4*g*1 + 6*a^2*c^6*d^4*h \\
& *m + 3*a^5*b*c^2*j^5*m + a^6*b*c*k^3*1^3 + 3*a^4*b^4*e*g*m^4 + 3*a^4*b^4*d* \\
& h*m^4 + 6*b^3*c^5*d^4*g*k - 3*b^3*c^5*d^4*h*j - 3*b^3*c^5*d^4*f*1 - 3*b^3*c \\
& ^5*d^4*e*m + 3*a*b^7*d^2*g*m^3 + 6*a^5*c^3*d*f*1^4 - 6*a^4*c^4*e*g*j^4 - 6* \\
& a^4*c^4*d*h*j^4 + 6*a^3*c^5*e*g^4*j + 6*a^3*c^5*d*g^4*k - 6*a^2*c^6*e^4*g*j \\
& - 6*a^2*c^6*e^4*f*k - 6*a^2*c^6*d*e^4*m + 3*a^4*b*c^3*h^5*1 + 6*a^3*c^5*f* \\
& g^4*h - 3*a^3*b^5*d*e*m^4 + 3*b^2*c^6*d^4*e*j + 3*a^5*b*c^2*g*k^5 + 3*a^3*b \\
& *c^4*g^5*k + 8*a*b^6*c*d^3*m^3 + 3*b^2*c^6*d^4*f*h - 3*a^5*b^2*c*e*1^5 - 3* \\
& a*b^2*c^5*e^5*1 - 6*a^3*c^5*d*f*h^4 + 6*a^2*c^6*e*f^4*g + 6*a^2*c^6*d*f^4*h \\
& + 3*a^4*b*c^3*f*j^5 + 3*a^2*b*c^5*f^5*j + 6*a*c^7*d^3*e^2*h - 6*a*c^7*d^2* \\
& e^3*g + 3*a^3*b*c^4*e*h^5 + 6*a*b*c^6*d^3*g^3 + 3*a^2*b*c^5*d*g^5 + a*b*c^6
\end{aligned}$$

$$\begin{aligned}
& *e^3*f^3 - 9*a^6*c^2*j^2*k^2*1^2 - 9*a^6*c^2*h^2*k^2*m^2 - 9*a^6*c^2*g^2*1^2 \\
& 2*m^2 - 18*a^5*c^3*f^2*j^2*m^2 - 9*a^5*c^3*h^2*j^2*k^2 - 9*a^5*c^3*g^2*j^2* \\
& 1^2 - 9*a^5*c^3*f^2*k^2*1^2 - 9*a^5*c^3*e^2*k^2*m^2 - 9*a^5*c^3*d^2*1^2*m^2 \\
& - 9*a^5*c^3*g^2*h^2*m^2 - 9*a^4*c^4*e^2*j^2*k^2 - 9*a^4*c^4*d^2*j^2*1^2 - \\
& 18*a^4*c^4*e^2*h^2*1^2 - 9*a^4*c^4*g^2*h^2*j^2 - 9*a^4*c^4*f^2*h^2*k^2 - 9* \\
& a^4*c^4*f^2*g^2*1^2 - 9*a^4*c^4*e^2*g^2*m^2 - 9*a^4*c^4*d^2*h^2*m^2 - 18*a^ \\
& 3*c^5*d^2*g^2*k^2 - 9*a^3*c^5*e^2*g^2*j^2 - 9*a^3*c^5*e^2*f^2*k^2 - 9*a^3*c \\
& ^5*d^2*h^2*j^2 - 9*a^3*c^5*d^2*f^2*1^2 - 9*a^3*c^5*d^2*e^2*m^2 - 3*a^4*b^2* \\
& c^2*h^4*1^2 - 18*a^4*b^2*c^2*f^3*m^3 + 12*a^3*b^2*c^3*f^4*m^2 - 9*a^3*c^5*f \\
& ^2*g^2*h^2 + 4*a^4*b^2*c^2*g^3*1^3 - 3*a^2*b^4*c^2*f^4*m^2 + 14*a^3*b^3*c^2 \\
& *e^3*m^3 - 5*a^3*b^3*c^2*f^3*1^3 - 3*a^4*b^2*c^2*g^2*k^4 - 3*a^3*b^2*c^3*g^ \\
& 4*k^2 + a^3*b^3*c^2*g^3*k^3 - 20*a^2*b^4*c^2*d^3*m^3 - 18*a^3*b^2*c^3*e^3*1 \\
& ^3 + 16*a^3*b^2*c^3*d^3*m^3 + 12*a^4*b^2*c^2*e^2*1^4 + 12*a^2*b^2*c^4*e^4*1 \\
& ^2 - 9*a^2*c^6*d^2*e^2*j^2 + 6*a^2*b^4*c^2*e^3*1^3 + 4*a^3*b^2*c^3*f^3*k^3 \\
& + 14*a^2*b^3*c^3*d^3*1^3 - 9*a^2*c^6*e^2*f^2*g^2 - 9*a^2*c^6*d^2*f^2*h^2 - \\
& 5*a^2*b^3*c^3*e^3*k^3 - 3*a^3*b^2*c^3*f^2*j^4 - 3*a^2*b^2*c^4*f^4*j^2 + a^2 \\
& *b^3*c^3*f^3*j^3 - 18*a^2*b^2*c^4*d^3*k^3 + 12*a^3*b^2*c^3*d^2*k^4 + 4*a^2* \\
& b^2*c^4*e^3*j^3 - 3*a^2*b^4*c^2*d^2*k^4 - 3*a^2*b^2*c^4*e^2*h^4 + 6*a^7*c*k \\
& *1^4*m - 3*a^7*b*k*1*m^4 - 6*a^7*c*h*k*m^4 - 6*a^7*c*g*1*m^4 + 3*a^6*b*c*h* \\
& 1^5 - 6*a*c^7*d^4*e*j - 6*a*c^7*d^4*f*h - 3*b*c^7*d^4*e*f + 6*a*c^7*d^4*f \\
& + 3*a*b*c^6*e^5*h - a^5*b^2*c*j^3*1^3 - a^3*b^4*c*g^3*1^3 - a*b^4*c^3*e^3* \\
& j^3 - a*b^2*c^5*e^3*g^3 + 3*a^7*b*j*m^5 + 6*a^7*c*f*m^5 + 6*a*c^7*d^5*k + 3 \\
& *b*c^7*d^5*g - 3*a^6*c^2*j^4*m^2 - 3*a^6*b^2*j^2*m^4 + 2*a^6*c^2*j^3*1^3 + \\
& a^5*b^3*j^3*m^3 - 2*a^6*c^2*h^3*m^3 - 3*a^6*c^2*h^2*1^4 - 3*a^5*c^3*h^4*1^2 \\
& - a*b^6*c*e^3*1^3 + 20*a^5*c^3*f^3*m^3 - 15*a^6*c^2*f^2*m^4 - 15*a^4*c^4*f \\
& ^4*m^2 + 2*a^5*c^3*h^3*k^3 - 2*a^5*c^3*g^3*1^3 + a^3*b^5*g^3*m^3 - 3*a^5*c^ \\
& 3*g^2*k^4 - 3*a^4*c^4*g^4*k^2 - 3*a^4*b^4*f^2*m^4 + 20*a^4*c^4*e^3*1^3 - 15 \\
& *a^5*c^3*e^2*1^4 - 15*a^3*c^5*e^4*1^2 + 2*a^4*c^4*g^3*j^3 - 2*a^4*c^4*f^3*k \\
& ^3 - 2*a^4*c^4*d^3*m^3 - 3*b^4*c^4*d^4*k^2 - 3*a^4*c^4*f^2*j^4 - 3*a^3*c^5* \\
& f^4*j^2 + 20*a^3*c^5*d^3*k^3 - 15*a^4*c^4*d^2*k^4 - 15*a^2*c^6*d^4*k^2 - 2* \\
& a^3*c^5*e^3*j^3 + b^5*c^3*d^3*j^3 + 2*a^3*c^5*f^3*h^3 - 3*a^3*c^5*e^2*h^4 - \\
& 3*a^2*c^6*e^4*h^2 - 3*b^2*c^6*d^4*g^2 + 2*a^2*c^6*e^3*g^3 - 2*a^2*c^6*d^3* \\
& h^3 + b^3*c^5*d^3*g^3 - 3*a^2*c^6*d^2*g^4 - a^4*b^2*c^2*h^3*k^3 - a^3*b^2*c \\
& ^3*g^3*j^3 - a^2*b^4*c^2*f^3*k^3 - a^2*b^2*c^4*f^3*h^3 + 2*a^7*c*k^3*m^3 + \\
& a^7*b*1^3*m^3 - 3*a^7*c*j^2*m^4 + 6*a^3*c^5*f^5*m - 3*a^6*b^2*f*m^5 + 6*a^6 \\
& *c^2*e*1^5 + 6*a^2*c^6*e^5*1 + b^7*c*d^3*1^3 + a*b^7*e^3*m^3 - 3*b^2*c^6*d^ \\
& 5*k + 6*a^5*c^3*d*k^5 - 3*a*c^7*d^4*g^2 + 2*a*c^7*d^3*f^3 + b*c^7*d^3*e^3 - \\
& a^6*b^2*k^3*m^3 - a^4*b^4*h^3*m^3 - a^2*b^6*f^3*m^3 - b^6*c^2*d^3*k^3 - b^ \\
& 4*c^4*d^3*h^3 - b^2*c^6*d^3*f^3 - b^8*d^3*m^3 - a^6*c^2*k^6 - a^5*c^3*j^6 - \\
& a^4*c^4*h^6 - a^3*c^5*g^6 - a^2*c^6*f^6 - a^7*c*1^6 - a*c^7*e^6 - a^8*m^6 \\
& - c^8*d^6, z, k1)*(root(34992*a^4*b^2*c^8*z^6 - 8748*a^3*b^4*c^7*z^6 + 729* \\
& a^2*b^6*c^6*z^6 - 46656*a^5*c^9*z^6 + 34992*a^4*b^3*c^6*m*z^5 - 8748*a^3*b^ \\
& 5*c^5*m*z^5 + 729*a^2*b^7*c^4*m*z^5 - 34992*a^4*b^2*c^7*j*z^5 + 8748*a^3*b^ \\
& 4*c^6*j*z^5 - 729*a^2*b^6*c^5*j*z^5 - 46656*a^5*b*c^7*m*z^5 + 46656*a^5*c^8 \\
& *j*z^5 + 34992*a^5*b*c^6*j*m*z^4 - 11664*a^5*b*c^6*k*1*z^4 + 3888*a^4*b*c^7
\end{aligned}$$

$$\begin{aligned}
& *f*j*z^4 + 3888*a^4*b*c^7*e*k*z^4 + 3888*a^4*b*c^7*d*l*z^4 + 3888*a^4*b*c^7 \\
& *g*h*z^4 + 3888*a^3*b*c^8*d*e*z^4 + 243*a*b^5*c^6*d*e*z^4 - 25272*a^4*b^3*c \\
& ^5*j*m*z^4 + 9720*a^4*b^3*c^5*k*l*z^4 + 6075*a^3*b^5*c^4*j*m*z^4 - 2673*a^3 \\
& *b^5*c^4*k*l*z^4 - 486*a^2*b^7*c^3*j*m*z^4 + 243*a^2*b^7*c^3*k*l*z^4 - 7776 \\
& *a^4*b^2*c^6*h*k*z^4 - 7776*a^4*b^2*c^6*g*l*z^4 - 7776*a^4*b^2*c^6*f*m*z^4 \\
& + 2430*a^3*b^4*c^5*h*k*z^4 + 2430*a^3*b^4*c^5*g*l*z^4 + 2430*a^3*b^4*c^5*f* \\
& m*z^4 - 243*a^2*b^6*c^4*h*k*z^4 - 243*a^2*b^6*c^4*g*l*z^4 - 243*a^2*b^6*c^4 \\
& *f*m*z^4 - 1944*a^3*b^3*c^6*f*j*z^4 - 1944*a^3*b^3*c^6*e*k*z^4 - 1944*a^3*b \\
& ^3*c^6*d*l*z^4 + 243*a^2*b^5*c^5*f*j*z^4 + 243*a^2*b^5*c^5*e*k*z^4 + 243*a^ \\
& 2*b^5*c^5*d*l*z^4 - 1944*a^3*b^3*c^6*g*h*z^4 + 243*a^2*b^5*c^5*g*h*z^4 + 38 \\
& 88*a^3*b^2*c^7*e*g*z^4 + 3888*a^3*b^2*c^7*d*h*z^4 - 486*a^2*b^4*c^6*e*g*z^4 \\
& - 486*a^2*b^4*c^6*d*h*z^4 - 1944*a^2*b^3*c^7*d*e*z^4 + 7776*a^5*c^7*h*k*z^ \\
& 4 + 7776*a^5*c^7*g*l*z^4 + 7776*a^5*c^7*f*m*z^4 - 7776*a^4*c^8*e*g*z^4 - 77 \\
& 76*a^4*c^8*d*h*z^4 - 13608*a^5*b^2*c^5*m^2*z^4 + 11421*a^4*b^4*c^4*m^2*z^4 \\
& - 2916*a^3*b^6*c^3*m^2*z^4 + 243*a^2*b^8*c^2*m^2*z^4 + 13608*a^4*b^2*c^6*j^ \\
& 2*z^4 - 3159*a^3*b^4*c^5*j^2*z^4 + 243*a^2*b^6*c^4*j^2*z^4 + 1944*a^3*b^2*c \\
& ^7*f^2*z^4 - 243*a^2*b^4*c^6*f^2*z^4 - 3888*a^6*c^6*m^2*z^4 - 19440*a^5*c^7 \\
& *j^2*z^4 - 3888*a^4*c^8*f^2*z^4 + 3078*a^4*b^4*c^3*k*l*m*z^3 - 2592*a^5*b^2 \\
& *c^4*k*l*m*z^3 - 891*a^3*b^6*c^2*k*l*m*z^3 - 4536*a^4*b^3*c^4*j*k*l*z^3 + 1 \\
& 053*a^3*b^5*c^3*j*k*l*z^3 - 81*a^2*b^7*c^2*j*k*l*z^3 - 2592*a^4*b^3*c^4*h*k \\
& *m*z^3 - 2592*a^4*b^3*c^4*g*l*m*z^3 + 810*a^3*b^5*c^3*h*k*m*z^3 + 810*a^3*b \\
& ^5*c^3*g*l*m*z^3 - 81*a^2*b^7*c^2*h*k*m*z^3 - 81*a^2*b^7*c^2*g*l*m*z^3 + 77 \\
& 76*a^4*b^2*c^5*f*j*m*z^3 + 3888*a^4*b^2*c^5*h*j*k*z^3 + 3888*a^4*b^2*c^5*g* \\
& j*l*z^3 - 3888*a^4*b^2*c^5*f*k*l*z^3 - 2916*a^3*b^4*c^4*f*j*m*z^3 + 1458*a^ \\
& 3*b^4*c^4*f*k*l*z^3 - 972*a^3*b^4*c^4*h*j*k*z^3 - 972*a^3*b^4*c^4*g*j*l*z^3 \\
& - 486*a^3*b^4*c^4*e*k*m*z^3 - 486*a^3*b^4*c^4*d*l*m*z^3 + 324*a^2*b^6*c^3* \\
& f*j*m*z^3 - 162*a^2*b^6*c^3*f*k*l*z^3 + 81*a^2*b^6*c^3*h*j*k*z^3 + 81*a^2*b \\
& ^6*c^3*g*j*l*z^3 + 81*a^2*b^6*c^3*e*k*m*z^3 + 81*a^2*b^6*c^3*d*l*m*z^3 - 48 \\
& 6*a^3*b^4*c^4*g*h*m*z^3 + 81*a^2*b^6*c^3*g*h*m*z^3 + 648*a^3*b^3*c^5*e*j*k* \\
& z^3 + 648*a^3*b^3*c^5*d*j*l*z^3 - 81*a^2*b^5*c^4*e*j*k*z^3 - 81*a^2*b^5*c^4 \\
& *d*j*l*z^3 + 2592*a^3*b^3*c^5*e*g*m*z^3 + 2592*a^3*b^3*c^5*d*h*m*z^3 - 1296 \\
& *a^3*b^3*c^5*f*h*k*z^3 - 1296*a^3*b^3*c^5*f*g*l*z^3 - 1296*a^3*b^3*c^5*e*h* \\
& l*z^3 + 648*a^3*b^3*c^5*g*h*j*z^3 - 324*a^2*b^5*c^4*e*g*m*z^3 - 324*a^2*b^5 \\
& *c^4*d*h*m*z^3 + 162*a^2*b^5*c^4*f*h*k*z^3 + 162*a^2*b^5*c^4*f*g*l*z^3 + 16 \\
& 2*a^2*b^5*c^4*e*h*l*z^3 - 81*a^2*b^5*c^4*g*h*j*z^3 + 5184*a^3*b^2*c^6*d*e*m \\
& *z^3 - 2592*a^3*b^2*c^6*e*g*j*z^3 - 2592*a^3*b^2*c^6*d*h*j*z^3 - 2106*a^2*b \\
& ^4*c^5*d*e*m*z^3 + 1296*a^3*b^2*c^6*e*f*k*z^3 + 1296*a^3*b^2*c^6*d*g*k*z^3 \\
& + 1296*a^3*b^2*c^6*d*f*l*z^3 + 324*a^2*b^4*c^5*e*g*j*z^3 + 324*a^2*b^4*c^5 \\
& *d*h*j*z^3 - 162*a^2*b^4*c^5*e*f*k*z^3 - 162*a^2*b^4*c^5*d*g*k*z^3 - 162*a^2 \\
& *b^4*c^5*d*f*l*z^3 + 1296*a^3*b^2*c^6*f*g*h*z^3 - 162*a^2*b^4*c^5*f*g*h*z^3 \\
& + 1944*a^2*b^3*c^6*d*e*j*z^3 - 1296*a^2*b^2*c^7*d*e*f*z^3 + 81*a^2*b^8*c*k \\
& *l*m*z^3 + 6480*a^5*b*c^5*j*k*l*z^3 + 2592*a^5*b*c^5*h*k*m*z^3 + 2592*a^5*b \\
& *c^5*g*l*m*z^3 - 1296*a^4*b*c^6*e*j*k*z^3 - 1296*a^4*b*c^6*d*j*l*z^3 - 5184 \\
& *a^4*b*c^6*e*g*m*z^3 - 5184*a^4*b*c^6*d*h*m*z^3 + 2592*a^4*b*c^6*f*h*k*z^3 \\
& + 2592*a^4*b*c^6*f*g*l*z^3 + 2592*a^4*b*c^6*e*h*l*z^3 - 1296*a^4*b*c^6*g*h*
\end{aligned}$$

$$\begin{aligned}
& j^3z^3 + 243a^6b^4c^4d^4e^4m^3z^3 - 3888a^3b^7c^7d^4e^4j^3z^3 - 243a^6b^5c^5d^4e^4j^3z^3 + 162a^6b^4c^6d^4e^4f^3z^3 - 2592a^6c^5k^4l^3m^3z^3 - 5184a^5c^6h^4j^3k^3z^3 - 5184a^5c^6g^4j^3l^3z^3 - 5184a^5c^6f^4j^3m^3z^3 + 2592a^5c^6f^4k^4l^3z^3 + 2592a^5c^6e^4k^4m^3z^3 + 2592a^5c^6d^4l^3m^3z^3 + 2592a^5c^6g^4h^4m^3z^3 + 5184a^4c^7e^4g^4j^3z^3 + 5184a^4c^7d^4h^4j^3z^3 - 2592a^4c^7e^4f^4k^3z^3 - 2592a^4c^7d^4g^4k^3z^3 - 2592a^4c^7d^4f^4l^3z^3 - 2592a^4c^7d^4e^4m^3z^3 - 2592a^4c^7f^4g^4h^3z^3 + 2592a^3c^8d^4e^4f^3z^3 + 6480a^5b^2c^4j^3m^2z^3 + 6480a^4b^3c^4j^2m^3z^3 - 5022a^4b^4c^3j^3m^2z^3 - 1296a^3b^5c^3j^2m^3z^3 + 1134a^3b^6c^2j^3m^2z^3 + 81a^2b^7c^2j^2m^3z^3 + 2592a^4b^3c^4h^4l^2z^3 - 1944a^4b^2c^5h^4l^2z^3 - 810a^3b^5c^3h^4l^2z^3 + 729a^3b^4c^4h^4l^2z^3 + 81a^2b^7c^2h^4l^2z^3 - 81a^2b^6c^3h^4l^2z^3 - 5184a^4b^3c^4f^4m^2z^3 + 1620a^3b^5c^3f^4m^2z^3 + 1296a^3b^3c^5f^4m^2z^3 - 162a^2b^7c^2f^4m^2z^3 - 162a^2b^5c^4f^4m^2z^3 - 1944a^4b^2c^5g^4k^2z^3 + 729a^3b^4c^4g^4k^2z^3 - 648a^3b^3c^5g^4k^2z^3 - 81a^2b^6c^3g^4k^2z^3 + 81a^2b^5c^4g^4k^2z^3 - 1944a^4b^2c^5e^4l^2z^3 + 729a^3b^4c^4e^4l^2z^3 + 648a^3b^2c^6e^4l^2z^3 - 81a^2b^6c^3e^4l^2z^3 - 81a^2b^4c^5e^4l^2z^3 + 1296a^3b^3c^5f^4j^2z^3 - 1296a^3b^2c^6f^4j^2z^3 - 162a^2b^5c^4f^4j^2z^3 + 162a^2b^4c^5f^4j^2z^3 - 648a^3b^3c^5d^4k^2z^3 + 81a^2b^5c^4d^4k^2z^3 + 648a^3b^2c^6e^4h^2z^3 - 81a^2b^4c^5e^4h^2z^3 - 648a^2b^2c^7d^4g^4z^3 - 10368a^5b^7c^5j^2m^3z^3 - 81a^2b^8c^4j^3m^2z^3 - 2592a^5b^7c^5h^4l^2z^3 + 5184a^5b^7c^5f^4m^2z^3 - 2592a^4b^7c^6f^4m^2z^3 + 1296a^4b^6c^6g^4k^3z^3 - 2592a^4b^6c^6f^4j^2z^3 + 1296a^4b^6c^6d^4k^2z^3 + 81a^4b^4c^6d^2g^4z^3 + 2592a^6c^5j^3m^2z^3 + 1296a^5c^6h^4l^2z^3 + 1296a^5c^6g^4k^2z^3 + 1296a^5c^6e^4l^2z^3 - 1296a^4c^7e^4l^2z^3 + 2592a^4c^7f^4j^2z^3 - 2592a^6b^7c^4m^3z^3 - 324a^3b^7c^4m^3z^3 - 27a^2b^8c^4l^3z^3 - 1296a^4c^7e^4h^2z^3 - 864a^5b^7c^5k^3z^3 + 1296a^3c^8d^2g^4z^3 + 432a^4b^7c^6h^3z^3 + 27a^4b^4c^6e^3z^3 - 432a^2b^7c^8d^3z^3 + 216a^6b^3c^7d^3z^3 + 1134a^4b^5c^2m^3z^3 - 432a^5b^3c^3m^3z^3 + 1512a^5b^2c^4l^3z^3 - 1107a^4b^4c^3l^3z^3 + 297a^3b^6c^2l^3z^3 + 864a^4b^3c^4k^3z^3 - 270a^3b^5c^3k^3z^3 + 27a^2b^7c^2k^3z^3 - 2592a^4b^2c^5j^3z^3 + 486a^3b^4c^4j^3z^3 - 27a^2b^6c^3j^3z^3 - 216a^3b^3c^5h^3z^3 + 27a^2b^5c^4h^3z^3 + 216a^3b^2c^6g^3z^3 - 27a^2b^4c^5g^3z^3 - 216a^2b^2c^7e^3z^3 - 432a^6c^5l^3z^3 + 27a^2b^9m^3z^3 + 4320a^5c^6j^3z^3 - 432a^4c^7g^3z^3 + 432a^3c^8e^3z^3 - 27b^5c^6d^3z^3 + 81a^3b^6c^4j^3k^3l^3m^3z^2 - 1296a^5b^7c^4h^4j^3k^3m^3z^2 - 1296a^5b^7c^4g^4j^3l^3m^3z^2 + 1296a^5b^7c^4f^4k^3l^3m^3z^2 - 81a^2b^7c^4f^4k^3l^3m^3z^2 + 2592a^4b^7c^5e^4g^4j^3m^3z^2 + 2592a^4b^7c^5d^4h^4j^3m^3z^2 - 1296a^4b^7c^5f^4h^4j^3k^3z^2 - 1296a^4b^7c^5f^4g^4j^3l^3z^2 - 1296a^4b^7c^5e^4f^4k^3m^3z^2 - 1296a^4b^7c^5d^4f^4l^3m^3z^2 - 648a^4b^7c^5e^4h^4j^3l^3z^2 - 648a^4b^7c^5e^4g^4k^3l^3z^2 - 648a^4b^7c^5d^4h^4k^3l^3z^2 - 648a^4b^7c^5d^4g^4k^3m^3z^2 - 1296a^4b^7c^5f^4g^4h^3m^3z^2 - 162a^6b^6c^3d^4e^4j^3m^3z^2 + 81a^6b^6c^3d^4e^4k^3l^3z^2 + 1296a^3b^6c^6d^4e^4f^4m^3z^2 - 648a^3b^6c^6d^4f^4g^4k^3z^2 - 648a^3b^6c^6d^4e^4h^4k^3z^2 - 648a^3b^6c^6d^4e^4g^4l^3z^2 - 81a^6b^5c^4d^4e^4h^4k^3z^2 - 81a^6b^5c^4d^4e^4g^4l^3z^2
\end{aligned}$$

$$\begin{aligned}
& z^2 + 81*a*b^5*c^4*d*e*f*m*z^2 - 81*a*b^4*c^5*d*e*f*j*z^2 + 81*a*b^4*c^5*d \\
& *e*g*h*z^2 + 648*a^5*b^2*c^3*j*k*l*m*z^2 - 567*a^4*b^4*c^2*j*k*l*m*z^2 - 19 \\
& 44*a^4*b^3*c^3*f*k*l*m*z^2 + 729*a^3*b^5*c^2*f*k*l*m*z^2 + 648*a^4*b^3*c^3* \\
& h*j*k*m*z^2 + 648*a^4*b^3*c^3*g*j*l*m*z^2 - 81*a^3*b^5*c^2*h*j*k*m*z^2 - 81 \\
& *a^3*b^5*c^2*g*j*l*m*z^2 + 1944*a^4*b^2*c^4*f*j*k*l*z^2 - 729*a^3*b^4*c^3*f \\
& *j*k*l*z^2 + 648*a^4*b^2*c^4*e*j*k*m*z^2 + 648*a^4*b^2*c^4*d*j*l*m*z^2 - 81 \\
& *a^3*b^4*c^3*e*j*k*m*z^2 - 81*a^3*b^4*c^3*d*j*l*m*z^2 + 81*a^2*b^6*c^2*f*j \\
& k*l*z^2 + 1296*a^4*b^2*c^4*f*h*k*m*z^2 + 1296*a^4*b^2*c^4*f*g*l*m*z^2 + 648 \\
& *a^4*b^2*c^4*g*h*j*m*z^2 - 648*a^3*b^4*c^3*f*h*k*m*z^2 - 648*a^3*b^4*c^3*f* \\
& g*l*m*z^2 - 324*a^4*b^2*c^4*g*h*k*l*z^2 - 324*a^4*b^2*c^4*e*h*l*m*z^2 + 81* \\
& a^3*b^4*c^3*g*h*k*l*z^2 - 81*a^3*b^4*c^3*g*h*j*m*z^2 + 81*a^2*b^6*c^2*f*h*k \\
& *m*z^2 + 81*a^2*b^6*c^2*f*g*l*m*z^2 - 1296*a^3*b^3*c^4*e*g*j*m*z^2 - 1296*a \\
& ^3*b^3*c^4*d*h*j*m*z^2 + 648*a^3*b^3*c^4*f*h*j*k*z^2 + 648*a^3*b^3*c^4*f*g* \\
& j*l*z^2 + 648*a^3*b^3*c^4*e*f*k*m*z^2 + 648*a^3*b^3*c^4*d*f*l*m*z^2 + 486*a \\
& ^3*b^3*c^4*e*g*k*l*z^2 + 486*a^3*b^3*c^4*d*h*k*l*z^2 + 162*a^3*b^3*c^4*e*h* \\
& j*l*z^2 + 162*a^3*b^3*c^4*d*g*k*m*z^2 + 162*a^2*b^5*c^3*e*g*j*m*z^2 + 162*a \\
& ^2*b^5*c^3*d*h*j*m*z^2 - 81*a^2*b^5*c^3*f*h*j*k*z^2 - 81*a^2*b^5*c^3*f*g*j \\
& l*z^2 - 81*a^2*b^5*c^3*e*g*k*l*z^2 - 81*a^2*b^5*c^3*e*f*k*m*z^2 - 81*a^2*b^ \\
& 5*c^3*d*h*k*l*z^2 - 81*a^2*b^5*c^3*d*f*l*m*z^2 + 648*a^3*b^3*c^4*f*g*h*m*z^ \\
& 2 - 81*a^2*b^5*c^3*f*g*h*m*z^2 - 3240*a^3*b^2*c^5*d*e*j*m*z^2 + 1620*a^3*b^ \\
& 2*c^5*d*e*k*l*z^2 + 1377*a^2*b^4*c^4*d*e*j*m*z^2 - 648*a^3*b^2*c^5*e*f*j*k* \\
& z^2 - 648*a^3*b^2*c^5*d*f*j*l*z^2 - 648*a^2*b^4*c^4*d*e*k*l*z^2 - 324*a^3*b \\
& ^2*c^5*d*g*j*k*z^2 + 81*a^2*b^4*c^4*e*f*j*k*z^2 + 81*a^2*b^4*c^4*d*f*j*l*z^ \\
& 2 + 972*a^3*b^2*c^5*e*f*h*l*z^2 - 648*a^3*b^2*c^5*f*g*h*j*z^2 - 324*a^3*b^2 \\
& *c^5*e*g*h*k*z^2 - 324*a^3*b^2*c^5*d*g*h*l*z^2 - 162*a^2*b^4*c^4*e*f*h*l*z^ \\
& 2 + 81*a^2*b^4*c^4*f*g*h*j*z^2 + 81*a^2*b^4*c^4*e*g*h*k*z^2 + 81*a^2*b^4*c^ \\
& 4*d*g*h*l*z^2 - 648*a^2*b^3*c^5*d*e*f*m*z^2 + 486*a^2*b^3*c^5*d*e*h*k*z^2 + \\
& 486*a^2*b^3*c^5*d*e*g*l*z^2 + 162*a^2*b^3*c^5*d*f*g*k*z^2 + 648*a^2*b^2*c^ \\
& 6*d*e*f*j*z^2 - 324*a^2*b^2*c^6*d*e*g*h*z^2 - 1296*a^6*b*c^3*k*l*m^2*z^2 - \\
& 81*a^4*b^5*c*k*l*m^2*z^2 - 1296*a^5*b*c^4*j^2*k*l*z^2 - 324*a^5*b*c^4*h^2*l \\
& *m*z^2 + 324*a^5*b*c^4*h*k^2*l*z^2 - 324*a^5*b*c^4*g*k^2*m*z^2 + 972*a^5*b* \\
& c^4*h*j*l^2*z^2 + 324*a^5*b*c^4*g*k*l^2*z^2 - 324*a^5*b*c^4*e*l^2*m*z^2 - 3 \\
& 24*a^4*b*c^5*e^2*l*m*z^2 - 1944*a^5*b*c^4*f*j*m^2*z^2 + 1296*a^5*b*c^4*e*k* \\
& m^2*z^2 + 1296*a^5*b*c^4*d*l*m^2*z^2 + 648*a^4*b*c^5*f^2*j*m*z^2 + 81*a^2*b \\
& ^7*c*f*j*m^2*z^2 + 1296*a^5*b*c^4*g*h*m^2*z^2 - 324*a^4*b*c^5*g^2*j*k*z^2 + \\
& 324*a^4*b*c^5*g^2*h*l*z^2 + 972*a^4*b*c^5*f*h^2*l*z^2 + 324*a^4*b*c^5*g*h^ \\
& 2*k*z^2 - 324*a^4*b*c^5*e*h^2*m*z^2 - 324*a^4*b*c^5*d*j*k^2*z^2 - 324*a^3*b \\
& *c^6*d^2*j*k*z^2 + 972*a^4*b*c^5*f*g*k^2*z^2 + 972*a^3*b*c^6*d^2*g*m*z^2 + \\
& 324*a^4*b*c^5*e*h*k^2*z^2 + 324*a^3*b*c^6*d^2*h*l*z^2 + 81*a*b^5*c^4*d^2*g* \\
& m*z^2 + 972*a^4*b*c^5*e*f*l^2*z^2 + 324*a^4*b*c^5*d*g*l^2*z^2 - 324*a^3*b*c \\
& ^6*e^2*h*j*z^2 + 324*a^3*b*c^6*e^2*g*k*z^2 - 324*a^3*b*c^6*e^2*f*l*z^2 - 12 \\
& 96*a^4*b*c^5*d*e*m^2*z^2 + 81*a*b^7*c^2*d*e*m^2*z^2 - 324*a^3*b*c^6*d*g^2*j \\
& *z^2 - 81*a*b^4*c^5*d^2*g*j*z^2 + 81*a*b^4*c^5*d^2*e*l*z^2 + 324*a^3*b*c^6* \\
& e*g^2*h*z^2 + 81*a*b^4*c^5*d*e^2*k*z^2 + 1296*a^3*b*c^6*d*e*j^2*z^2 - 324*a \\
& ^3*b*c^6*e*f*h^2*z^2 + 324*a^3*b*c^6*d*g*h^2*z^2 + 81*a*b^5*c^4*d*e*j^2*z^2
\end{aligned}$$

$$\begin{aligned}
& - 324a^2b^3c^7d^2f^2gz^2 + 324a^2b^3c^7d^2e^2hz^2 + 81a^2b^3c^6d^2 \\
& *f^2gz^2 - 81a^2b^3c^6d^2e^2hz^2 + 324a^2b^3c^7d^2e^2gz^2 - 81a^2b^3c^6 \\
& d^2e^2gz^2 + 1296a^6c^4j^2k^2lm^2z^2 - 1296a^5c^5f^2j^2k^2lm^2z^2 - 129 \\
& 6a^5c^5e^2j^2k^2lm^2z^2 - 1296a^5c^5d^2j^2lm^2z^2 - 1296a^5c^5g^2h^2j^2m^2z^2 \\
& + 1296a^5c^5e^2h^2lm^2z^2 + 1296a^4c^6e^2f^2j^2k^2z^2 + 1296a^4c^6d^2g^2j^2 \\
& *k^2z^2 + 1296a^4c^6d^2f^2j^2lm^2z^2 - 1296a^4c^6d^2e^2k^2lm^2z^2 + 1296a^4c^6 \\
& d^2e^2j^2m^2z^2 + 1296a^4c^6f^2g^2h^2j^2z^2 - 1296a^4c^6e^2f^2h^2lm^2z^2 - 1296a \\
& ^3c^7d^2e^2f^2j^2z^2 + 648a^5b^3c^2k^2lm^2z^2 + 648a^4b^3c^3j^2k^2lm^2z^2 \\
& + 486a^5b^2c^3h^2lm^2z^2 - 81a^4b^4c^2h^2lm^2z^2 + 81a^4b^3c^3h^2lm^2z^2 \\
& - 81a^3b^5c^2j^2k^2lm^2z^2 - 162a^4b^2c^4g^2k^2lm^2z^2 - 81a^4b^3c^3h^2k^2lm^2z^2 \\
& + 81a^4b^3c^3g^2k^2lm^2z^2 - 567a^4b^3c^3h^2j^2lm^2z^2 + 486a^4b^2c^4h^2j^2lm^2z^2 \\
& - 81a^4b^3c^3g^2k^2lm^2z^2 + 81a^4b^3c^3e^2lm^2z^2 + 81a^3b^5c^2h^2j^2lm^2z^2 - 81a^3b^4c^3h^2 \\
& j^2lm^2z^2 + 81a^3b^3c^4e^2lm^2z^2 + 2430a^4b^3c^3f^2j^2m^2z^2 - 226 \\
& 8a^4b^2c^4f^2j^2m^2z^2 - 810a^3b^5c^2f^2j^2m^2z^2 + 810a^3b^4c^3f^2j^2m^2z^2 \\
& - 648a^4b^3c^3e^2k^2m^2z^2 - 648a^4b^3c^3d^2lm^2z^2 - 64 \\
& 8a^4b^2c^4h^2j^2k^2z^2 - 648a^4b^2c^4g^2j^2lm^2z^2 - 162a^3b^3c^4f^2j^2m^2z^2 \\
& + 81a^3b^5c^2e^2k^2m^2z^2 + 81a^3b^5c^2d^2lm^2z^2 + 81a^3b^4c^3h^2j^2k^2z^2 \\
& + 81a^3b^4c^3g^2j^2lm^2z^2 - 81a^2b^6c^2f^2j^2m^2z^2 - 648a^4b^3c^3g^2h^2m^2z^2 \\
& + 486a^4b^2c^4g^2j^2k^2z^2 - 486a^4b^2c^4e^2k^2lm^2z^2 + 486a^3b^2c^5d^2k^2m^2z^2 \\
& - 162a^4b^2c^4d^2k^2m^2z^2 + 81a^3b^5c^2g^2h^2m^2z^2 - 81a^3b^4c^3g^2j^2k^2z^2 \\
& + 81a^3b^4c^3e^2k^2lm^2z^2 + 81a^3b^3c^4g^2j^2k^2z^2 - 81a^2b^4c^4d^2k^2m^2z^2 \\
& + 486a^4b^2c^4e^2j^2lm^2z^2 - 486a^4b^2c^4d^2k^2lm^2z^2 - 162a^3b^2c^5e^2j^2lm^2z^2 \\
& - 81a^3b^4c^3e^2j^2lm^2z^2 + 81a^3b^4c^3d^2k^2lm^2z^2 - 81a^3b^3c^4g^2h^2lm^2z^2 \\
& - 1458a^4b^2c^4f^2h^2lm^2z^2 + 648a^3b^4c^3f^2h^2lm^2z^2 - 567a^3b^3c^4f^2h^2lm^2z^2 \\
& + 486a^3b^2c^5e^2h^2m^2z^2 - 81a^3b^3c^4g^2h^2k^2z^2 + 81a^3b^3c^4e^2h^2m^2z^2 \\
& - 81a^2b^6c^2f^2h^2lm^2z^2 + 81a^2b^5c^3f^2h^2lm^2z^2 - 81a^2b^4c^4e^2h^2m^2z^2 - 1296 \\
& a^4b^2c^4e^2g^2m^2z^2 - 1296a^4b^2c^4d^2h^2m^2z^2 + 648a^3b^4c^3e^2g^2m^2z^2 \\
& + 648a^3b^4c^3d^2h^2m^2z^2 + 81a^3b^3c^4d^2j^2k^2z^2 - 81a^2b^6c^2e^2g^2m^2z^2 \\
& - 81a^2b^6c^2d^2h^2m^2z^2 + 81a^2b^3c^5d^2j^2k^2z^2 - 567a^3b^3c^4f^2g^2k^2z^2 \\
& - 567a^2b^3c^5d^2g^2m^2z^2 + 486a^3b^2c^5f^2g^2k^2z^2 - 486a^3b^2c^5e^2g^2lm^2z^2 \\
& + 486a^3b^2c^5d^2g^2m^2z^2 - 81a^3b^3c^4e^2h^2k^2z^2 + 81a^2b^5c^3f^2g^2k^2z^2 \\
& - 81a^2b^4c^4f^2g^2k^2z^2 + 81a^2b^4c^4e^2g^2lm^2z^2 - 81a^2b^4c^4d^2g^2m^2z^2 \\
& - 81a^2b^3c^5d^2h^2lm^2z^2 - 567a^3b^3c^4e^2f^2lm^2z^2 - 486a^3b^2c^5d^2h^2k^2z^2 \\
& - 162a^3b^2c^5e^2h^2j^2z^2 - 81a^3b^3c^4d^2g^2lm^2z^2 + 81a^2b^5c^3e^2f^2lm^2z^2 \\
& + 81a^2b^4c^4d^2h^2k^2z^2 + 81a^2b^3c^5e^2h^2j^2z^2 - 81a^2b^3c^5e^2g^2k^2z^2 \\
& + 81a^2b^3c^5e^2f^2lm^2z^2 + 1944a^3b^3c^4d^2e^2m^2z^2 - 729a^2b^5c^3d^2e^2m^2z^2 \\
& + 648a^3b^2c^5e^2g^2j^2z^2 + 648a^3b^2c^5d^2h^2j^2z^2 - 81a^2b^4c^4e^2g^2j^2z^2 \\
& - 81a^2b^4c^4d^2h^2j^2z^2 + 486a^3b^2c^5d^2f^2k^2z^2 + 486a^2b^2c^6d^2g^2j^2z^2 \\
& - 486a^2b^2c^6d^2e^2lm^2z^2 - 162a^2b^2c^6d^2f^2k^2z^2 - 81a^2b^4c^4d^2f^2k^2z^2 \\
& + 81a^2b^3c^5d^2g^2j^2z^2 - 486a^2b^2c^6d^2e^2
\end{aligned}$$

$$\begin{aligned}
& *kz^2 - 81a^2b^3c^5e*g^2h^2z^2 - 648a^2b^3c^5d*e*j^2z^2 - 162a^2 \\
& *b^2c^6e^2*f*h^2z^2 + 81a^2b^3c^5e*f*h^2z^2 - 81a^2b^3c^5d*g*h^2* \\
& z^2 - 162a^2b^2c^6d*f*g^2z^2 - 189a^5b^3c^2l^3m^2z^2 + 162a^5b^2 \\
& *c^3k^3m^2z^2 - 27a^4b^4c^2k^3m^2z^2 - 702a^4b^3c^3j^3m^2z^2 - 81* \\
& a^3b^6c*j^2m^2z^2 + 81a^3b^5c^2j^3m^2z^2 - 54a^5b^3c^2j*m^3z^2 \\
& - 486a^5b^2c^3j*l^3z^2 + 216a^4b^4c^2j*l^3z^2 - 189a^4b^3c^3* \\
& j*k^3z^2 - 54a^4b^2c^4h^3m^2z^2 + 27a^3b^5c^2j*k^3z^2 + 27a^3b^ \\
& 3c^4g^3m^2z^2 - 810a^4b^4c^2f*m^3z^2 + 540a^5b^2c^3f*m^3z^2 - 3 \\
& 24a^3b^2c^5f^3m^2z^2 + 54a^2b^4c^4f^3m^2z^2 + 675a^4b^3c^3f*l^3 \\
& *z^2 - 243a^3b^5c^2f*l^3z^2 - 189a^2b^3c^5e^3m^2z^2 + 27a^3b^3c \\
& ^4h^3j*z^2 - 486a^4b^2c^4f*k^3z^2 - 486a^2b^2c^6d^3m^2z^2 + 216* \\
& a^3b^4c^3f*k^3z^2 - 54a^3b^2c^5g^3j*z^2 - 27a^2b^6c^2f*k^3z^2 \\
& - 270a^3b^3c^4f*j^3z^2 - 54a^2b^3c^5f^3j*z^2 + 27a^2b^5c^3f* \\
& j^3z^2 + 162a^2b^2c^6e^3j*z^2 + 162a^3b^2c^5f*h^3z^2 - 27a^2b^ \\
& 4c^4f*h^3z^2 + 27a^2b^3c^5f*g^3z^2 + 81a*b^2c^7d^2e^2z^2 - 648 \\
& *a^6c^4h*l^2m^2z^2 + 648a^5c^5g^2k*m^2z^2 - 648a^5c^5h^2j*l^2z^2 + \\
& 1296a^5c^5h*j^2k*z^2 + 1296a^5c^5g*j^2l^2z^2 + 1296a^5c^5f*j^2m^ \\
& z^2 - 648a^5c^5g*j*k^2z^2 + 648a^5c^5e*k^2l^2z^2 + 648a^5c^5d*k^2 \\
& *m^2z^2 - 648a^4c^6d^2k*m^2z^2 - 648a^5c^5e*j*l^2z^2 + 648a^5c^5d* \\
& k*l^2z^2 + 648a^4c^6e^2j*l^2z^2 + 324a^6b*c^3l^3m^2z^2 + 27a^4b^5* \\
& c*l^3m^2z^2 + 648a^5c^5f*h*l^2z^2 - 648a^4c^6e^2h*m^2z^2 + 1512a^5* \\
& b*c^4j^3m^2z^2 + 1080a^6b*c^3j*m^3z^2 - 162a^4b^5c*j*m^3z^2 - 648* \\
& a^4c^6f*g^2k*z^2 + 648a^4c^6e*g^2l^2z^2 - 648a^4c^6d*g^2m^2z^2 - 2 \\
& 7a^3b^6c*j*l^3z^2 + 648a^4c^6e*h^2j*z^2 + 648a^4c^6d*h^2k*z^2 + \\
& 324a^5b*c^4j*k^3z^2 - 1296a^4c^6e*g*j^2z^2 - 1296a^4c^6d*h*j^2* \\
& z^2 - 108a^4b*c^5g^3m^2z^2 - 648a^4c^6d*f*k^2z^2 - 648a^3c^7d^2*g \\
& *j*z^2 + 648a^3c^7d^2f*k*z^2 + 648a^3c^7d^2e*l^2z^2 + 270a^3b^6c* \\
& f*m^3z^2 + 648a^3c^7d^2e*k*z^2 - 540a^5b*c^4f*l^3z^2 + 324a^3b*c \\
& ^6e^3m^2z^2 - 108a^4b*c^5h^3j*z^2 + 27a^2b^7c*f*l^3z^2 + 27a*b^5* \\
& c^4e^3m^2z^2 + 648a^3c^7e^2f*h^2z^2 + 216a*b^4c^5d^3m^2z^2 + 648a^4 \\
& *b*c^5f*j^3z^2 + 216a^3b*c^6f^3j*z^2 + 648a^3c^7d*f*g^2z^2 - 27a* \\
& *b^4c^5e^3j*z^2 + 324a^2b*c^7d^3j*z^2 - 189a*b^3c^6d^3j*z^2 - 10 \\
& 8a^3b*c^6f*g^3z^2 - 108a^2b*c^7e^3f*z^2 + 27a*b^3c^6e^3f*z^2 + \\
& 162a*b^2c^7d^3f*z^2 - 1134a^5b^2c^3j^2m^2z^2 + 648a^4b^4c^2j^ \\
& ^2m^2z^2 + 81a^5b^2c^3k^2l^2z^2 + 162a^4b^2c^4f^2m^2z^2 + 81a^ \\
& ^4b^2c^4h^2k^2z^2 + 81a^4b^2c^4g^2l^2z^2 + 162a^3b^2c^5f^2j \\
& ^2z^2 + 81a^3b^2c^5e^2k^2z^2 + 81a^3b^2c^5d^2l^2z^2 + 81a^3b^ \\
& ^2c^5g^2h^2z^2 + 81a^2b^2c^6e^2g^2z^2 + 81a^2b^2c^6d^2h^2z^ \\
& 2 - 216a^6c^4k^3m^2z^2 + 216a^6c^4j*l^3z^2 + 27a^3b^7j*m^3z^2 + \\
& 216a^5c^5h^3m^2z^2 + 432a^6c^4f*m^3z^2 + 432a^4c^6f^3m^2z^2 - 27* \\
& b^6c^4d^3m^2z^2 - 27a^2b^8f*m^3z^2 + 216a^5c^5f*k^3z^2 + 216a^4* \\
& c^6g^3j*z^2 + 216a^3c^7d^3m^2z^2 + 216a^5b^4c*m^4z^2 - 216a^3c^7 \\
& *e^3j*z^2 + 27b^5c^5d^3j*z^2 - 216a^4c^6f*h^3z^2 - 27b^4c^6d^3* \\
& f*z^2 - 216a^2c^8d^3f*z^2 - 648a^6c^4j^2m^2z^2 - 324a^6c^4k^2l \\
& ^2z^2 - 648a^5c^5f^2m^2z^2 - 324a^5c^5h^2k^2z^2 - 324a^5c^5g^
\end{aligned}$$

$$\begin{aligned}
& 2*1^2*z^2 - 648*a^4*c^6*f^2*j^2*z^2 - 324*a^4*c^6*e^2*k^2*z^2 - 324*a^4*c^6 \\
& *d^2*1^2*z^2 - 405*a^6*b^2*c^2*m^4*z^2 - 324*a^4*c^6*g^2*h^2*z^2 - 324*a^3*c^7 \\
& *e^2*g^2*z^2 - 324*a^3*c^7*d^2*h^2*z^2 + 243*a^4*b^2*c^4*j^4*z^2 - 27*a^3 \\
& *b^4*c^3*j^4*z^2 - 324*a^2*c^8*d^2*e^2*z^2 + 27*a^2*b^2*c^6*f^4*z^2 - 108*a^7 \\
& *c^3*m^4*z^2 - 27*a^4*b^6*m^4*z^2 - 540*a^5*c^5*j^4*z^2 - 108*a^3*c^7*f^4 \\
& *z^2 - 216*a^5*b*c^3*f*j*k*l*m*z - 54*a^3*b^5*c*f*j*k*l*m*z + 27*a^3*b^5*c \\
& *g*h*k*l*m*z - 27*a^2*b^6*c*e*g*k*l*m*z - 27*a^2*b^6*c*d*h*k*l*m*z + 432*a^4 \\
& *b*c^4*d*g*j*k*m*z - 432*a^4*b*c^4*d*e*k*l*m*z + 216*a^4*b*c^4*e*g*j*k*l*z \\
& + 216*a^4*b*c^4*e*f*j*k*m*z + 216*a^4*b*c^4*d*h*j*k*l*z + 216*a^4*b*c^4*d* \\
& f*j*l*m*z + 216*a^4*b*c^4*f*g*h*j*m*z - 27*a*b^6*c^2*d*e*j*k*l*z - 27*a*b^6 \\
& *c^2*d*e*h*k*m*z - 27*a*b^6*c^2*d*e*g*l*m*z + 216*a^3*b*c^5*d*e*h*j*k*z + 2 \\
& 16*a^3*b*c^5*d*e*g*j*l*z - 216*a^3*b*c^5*d*e*f*j*m*z + 27*a*b^5*c^3*d*e*h*j \\
& *k*z + 27*a*b^5*c^3*d*e*g*j*l*z + 27*a*b^5*c^3*d*e*g*h*m*z - 27*a*b^4*c^4*d \\
& *e*g*h*j*z + 27*a*b^7*c*d*e*k*l*m*z + 270*a^4*b^3*c^2*f*j*k*l*m*z - 108*a^4 \\
& *b^3*c^2*g*h*k*l*m*z - 216*a^4*b^2*c^3*f*h*j*k*m*z - 216*a^4*b^2*c^3*f*g*j* \\
& l*m*z - 216*a^4*b^2*c^3*e*g*k*l*m*z - 216*a^4*b^2*c^3*d*h*k*l*m*z + 162*a^3 \\
& *b^4*c^2*e*g*k*l*m*z + 162*a^3*b^4*c^2*d*h*k*l*m*z + 108*a^4*b^2*c^3*g*h*j* \\
& k*l*z + 108*a^4*b^2*c^3*e*h*j*l*m*z + 54*a^3*b^4*c^2*f*h*j*k*m*z + 54*a^3*b \\
& ^4*c^2*f*g*j*l*m*z - 27*a^3*b^4*c^2*g*h*j*k*l*z + 540*a^3*b^3*c^3*d*e*k*l*m \\
& *z - 216*a^2*b^5*c^2*d*e*k*l*m*z - 162*a^3*b^3*c^3*e*g*j*k*l*z - 162*a^3*b^3 \\
& *c^3*d*h*j*k*l*z - 108*a^3*b^3*c^3*d*g*j*k*m*z - 54*a^3*b^3*c^3*e*f*j*k*m* \\
& z - 54*a^3*b^3*c^3*d*f*j*l*m*z + 27*a^2*b^5*c^2*e*g*j*k*l*z + 27*a^2*b^5*c^2 \\
& *d*h*j*k*l*z - 108*a^3*b^3*c^3*e*g*h*k*m*z - 108*a^3*b^3*c^3*d*g*h*l*m*z - \\
& 54*a^3*b^3*c^3*f*g*h*j*m*z + 27*a^2*b^5*c^2*e*g*h*k*m*z + 27*a^2*b^5*c^2*d \\
& *g*h*l*m*z - 540*a^3*b^2*c^4*d*e*j*k*l*z + 216*a^2*b^4*c^3*d*e*j*k*l*z - 21 \\
& 6*a^3*b^2*c^4*d*e*h*k*m*z - 216*a^3*b^2*c^4*d*e*g*l*m*z + 162*a^2*b^4*c^3*d \\
& *e*h*k*m*z + 162*a^2*b^4*c^3*d*e*g*l*m*z + 108*a^3*b^2*c^4*e*g*h*j*k*z - 10 \\
& 8*a^3*b^2*c^4*e*f*h*j*l*z + 108*a^3*b^2*c^4*d*g*h*j*l*z + 108*a^3*b^2*c^4*d \\
& *f*g*k*m*z - 27*a^2*b^4*c^3*e*g*h*j*k*z - 27*a^2*b^4*c^3*d*g*h*j*l*z - 162* \\
& a^2*b^3*c^4*d*e*h*j*k*z - 162*a^2*b^3*c^4*d*e*g*j*l*z + 54*a^2*b^3*c^4*d*e* \\
& f*j*m*z - 108*a^2*b^3*c^4*d*e*g*h*m*z + 108*a^2*b^2*c^5*d*e*g*h*j*z + 324*a \\
& ^6*b*c^2*j*k*l*m^2*z - 81*a^5*b^3*c*j*k*l*m^2*z + 27*a^4*b^4*c*j^2*k*l*m*z \\
& - 27*a^4*b^4*c*h*k^2*l*m*z - 27*a^4*b^4*c*g*k^2*l*m*z + 216*a^5*b*c^3*h*j^2 \\
& *k*m*z + 216*a^5*b*c^3*g*j^2*l*m*z + 54*a^4*b^4*c*f*k^2*l*m^2*z + 27*a^4*b^4* \\
& c*h*j*k^2*m^2*z + 27*a^4*b^4*c*g*j^2*l*m^2*z + 27*a^2*b^6*c*f^2*k^2*l*m^2*z + 216*a \\
& ^5*b*c^3*e*k^2*l*m^2*z - 108*a^5*b*c^3*h*j*k^2*l*z + 27*a^3*b^5*c*e*k^2*l*m^2*z \\
& + 216*a^5*b*c^3*d*k^2*l*m^2*z + 216*a^4*b*c^4*e^2*j^2*l*m^2*z - 108*a^5*b*c^3*g* \\
& j*k^2*l^2*z + 27*a^3*b^5*c*d*k^2*l^2*m^2*z - 324*a^5*b*c^3*e*j*k^2*m^2*z - 324*a^5* \\
& b*c^3*d*j^2*l^2*m^2*z - 216*a^5*b*c^3*f*h^2*l^2*m^2*z - 108*a^4*b*c^4*f^2*j*k^2*l*z - \\
& 27*a^3*b^5*c*e*j*k^2*m^2*z - 27*a^3*b^5*c*d*j^2*l^2*m^2*z - 324*a^5*b*c^3*g*h*j* \\
& m^2*z + 216*a^5*b*c^3*f*h*k^2*m^2*z + 216*a^5*b*c^3*f*g^2*l^2*m^2*z + 216*a^5*b*c \\
& ^3*e*h^2*l^2*m^2*z - 216*a^4*b*c^4*f^2*h*k^2*m^2*z - 216*a^4*b*c^4*f^2*g^2*l^2*m^2*z - 27 \\
& *a^3*b^5*c*g*h^2*j^2*m^2*z + 216*a^4*b*c^4*e*g^2*l^2*m^2*z - 108*a^4*b*c^4*g^2*h*j* \\
& l^2*z - 216*a^4*b*c^4*f*h^2*j^2*l^2*z + 216*a^4*b*c^4*e*h^2*j^2*m^2*z + 216*a^4*b*c^4 \\
& *d*h^2*k^2*m^2*z - 108*a^4*b*c^4*g^2*h^2*j^2*k^2*z - 432*a^4*b*c^4*e*g*j^2*m^2*z - 432*
\end{aligned}$$

$$\begin{aligned}
& a^4*b*c^4*d*h*j^2*m*z + 216*a^4*b*c^4*f*h*j^2*k*z + 216*a^4*b*c^4*f*g*j^2*m^1 \\
& *z + 27*a^2*b^6*c*e*g*j*m^2*z + 27*a^2*b^6*c*d*h*j*m^2*z - 432*a^3*b*c^5*d^2 \\
& *g*j*m*z - 216*a^4*b*c^4*f*g*j*k^2*z + 216*a^3*b*c^5*d^2*f*k*m*z + 216*a^3 \\
& *b*c^5*d^2*e*l*m*z - 108*a^4*b*c^4*e*h*j*k^2*z - 108*a^4*b*c^4*d*g*k^2*l*z \\
& - 108*a^3*b*c^5*d^2*h*j*l*z + 108*a^3*b*c^5*d^2*g*k*l*z - 54*a*b^5*c^3*d^2* \\
& g*j*m*z + 27*a*b^5*c^3*d^2*g*k*l*z + 27*a*b^5*c^3*d^2*e*l*m*z - 216*a^4*b*c \\
& ^4*e*f*j*l^2*z + 216*a^3*b*c^5*d*e^2*k*m*z - 108*a^4*b*c^4*d*g*j*l^2*z - 10 \\
& 8*a^3*b*c^5*e^2*g*j*k*z + 27*a*b^5*c^3*d*e^2*k*m*z + 324*a^4*b*c^4*d*e*j*m^2 \\
& *z + 216*a^3*b*c^5*e^2*f*h*m*z - 108*a^4*b*c^4*e*g*h*l^2*z + 108*a^3*b*c^5 \\
& *e^2*g*h*l*z + 108*a^3*b*c^5*e*f^2*j*k*z + 108*a^3*b*c^5*d*f^2*j*l*z + 27*a \\
& *b^6*c^2*d*e*j^2*m*z - 216*a^3*b*c^5*e*f^2*h*l*z + 108*a^3*b*c^5*f^2*g*h*j* \\
& z - 27*a*b^4*c^4*d^2*e*j*l*z + 216*a^3*b*c^5*d*f*g^2*m*z - 108*a^3*b*c^5*e \\
& g^2*h*j*z + 54*a*b^4*c^4*d^2*f*g*m*z - 27*a*b^4*c^4*d^2*g*h*k*z - 27*a*b^4*c \\
& ^4*d^2*e*h*m*z - 27*a*b^4*c^4*d*e^2*j*k*z - 108*a^3*b*c^5*d*g*h^2*j*z + 54 \\
& *a*b^4*c^4*d*e^2*h*l*z + 27*a*b^6*c^2*d*e*h*l^2*z - 27*a*b^5*c^3*d*e*h^2*l* \\
& z - 27*a*b^4*c^4*d*e^2*g*m*z - 27*a*b^4*c^4*d*e*f^2*m*z + 216*a^2*b*c^6*d^2 \\
& *f*g*j*z - 108*a^3*b*c^5*d*e*g*k^2*z - 108*a^2*b*c^6*d^2*e*h*j*z + 108*a^2* \\
& b*c^6*d^2*e*g*k*z - 54*a*b^3*c^5*d^2*f*g*j*z - 27*a*b^5*c^3*d*e*g*k^2*z + 2 \\
& 7*a*b^4*c^4*d*e*g^2*k*z + 27*a*b^3*c^5*d^2*e*h*j*z - 27*a*b^3*c^5*d^2*e*g*k \\
& *z - 108*a^2*b*c^6*d*e^2*g*j*z + 27*a*b^3*c^5*d*e^2*g*j*z - 108*a^2*b*c^6*d \\
& *e*f^2*j*z + 27*a*b^3*c^5*d*e*f^2*j*z - 432*a^5*c^4*e*h*j*l*m*z + 432*a^4*c \\
& ^5*d*e*j*k*l*z + 432*a^4*c^5*e*f*h*j*l*z - 432*a^4*c^5*d*f*g*k*m*z - 27*a*b \\
& ^7*c*d*e*j*m^2*z - 54*a^5*b^2*c^2*j^2*k*l*m*z + 108*a^5*b^2*c^2*h*k^2*l*m*z \\
& + 108*a^5*b^2*c^2*g*k*l^2*m*z - 54*a^5*b^2*c^2*h*j*l^2*m*z + 378*a^4*b^2*c \\
& ^3*f^2*k*l*m*z - 270*a^5*b^2*c^2*f*k*l*m^2*z - 189*a^3*b^4*c^2*f^2*k*l*m*z \\
& - 108*a^5*b^2*c^2*h*j*k*m^2*z - 108*a^5*b^2*c^2*g*j*l*m^2*z - 54*a^4*b^3*c^2 \\
& *h*j^2*k*m*z - 54*a^4*b^3*c^2*g*j^2*l*m*z - 162*a^4*b^3*c^2*e*k^2*l*m*z + \\
& 54*a^4*b^2*c^3*g^2*j*k*m*z + 27*a^4*b^3*c^2*h*j*k^2*l*z - 162*a^4*b^3*c^2*d \\
& *k*l^2*m*z + 108*a^4*b^2*c^3*g^2*h*l*m*z - 54*a^3*b^3*c^3*e^2*j*l*m*z + 27* \\
& a^4*b^3*c^2*g*j*k*l^2*z - 27*a^3*b^4*c^2*g^2*h*l*m*z - 270*a^4*b^2*c^3*f*j^2 \\
& *k*l*z + 189*a^4*b^3*c^2*e*j*k*m^2*z + 189*a^4*b^3*c^2*d*j*l*m^2*z - 162*a \\
& ^4*b^2*c^3*e*j^2*k*m*z - 162*a^4*b^2*c^3*d*j^2*l*m*z + 135*a^3*b^3*c^3*f^2* \\
& j*k*l*z + 108*a^4*b^2*c^3*g*h^2*k*m*z + 54*a^4*b^3*c^2*f*h*l^2*m*z - 54*a^4 \\
& *b^2*c^3*f*h^2*l*m*z + 54*a^3*b^4*c^2*f*j^2*k*l*z - 27*a^3*b^4*c^2*g*h^2*k* \\
& m*z + 27*a^3*b^4*c^2*e*j^2*k*m*z + 27*a^3*b^4*c^2*d*j^2*l*m*z - 27*a^2*b^5* \\
& c^2*f^2*j*k*l*z - 270*a^3*b^2*c^4*d^2*j*k*m*z + 189*a^4*b^3*c^2*g*h*j*m^2*z \\
& - 162*a^4*b^2*c^3*g*h*j^2*m*z + 162*a^4*b^2*c^3*e*j*k^2*l*z + 162*a^3*b^3* \\
& c^3*f^2*h*k*m*z + 162*a^3*b^3*c^3*f^2*g*l*m*z - 54*a^4*b^3*c^2*f*h*k*m^2*z \\
& - 54*a^4*b^3*c^2*f*g*l*m^2*z - 54*a^4*b^3*c^2*e*h*l*m^2*z + 54*a^4*b^2*c^3* \\
& d*j*k^2*m*z + 54*a^2*b^4*c^3*d^2*j*k*m*z + 27*a^3*b^4*c^2*g*h*j^2*m*z - 27* \\
& a^3*b^4*c^2*e*j*k^2*l*z - 27*a^2*b^5*c^2*f^2*h*k*m*z - 27*a^2*b^5*c^2*f^2*g \\
& *l*m*z + 162*a^4*b^2*c^3*d*j*k*l^2*z - 162*a^3*b^3*c^3*e*g^2*l*m*z + 108*a^ \\
& 4*b^2*c^3*e*h*k^2*m*z + 108*a^3*b^2*c^4*d^2*h*l*m*z - 54*a^4*b^2*c^3*f*g*k^ \\
& 2*m*z - 27*a^3*b^4*c^2*e*h*k^2*m*z - 27*a^3*b^4*c^2*d*j*k*l^2*z + 27*a^3*b^ \\
& 3*c^3*g^2*h*j*l*z + 27*a^2*b^5*c^2*e*g^2*l*m*z - 27*a^2*b^4*c^3*d^2*h*l*m*z
\end{aligned}$$

$$\begin{aligned}
& + 270a^4b^2c^3f^*h^*j^*l^2z - 270a^3b^2c^4e^2h^*j^*m^*z - 162a^4b^2c^3e^*h^*k^*l^2z - 162a^3b^3c^3d^*h^2k^*m^*z + 162a^3b^2c^4e^2h^*k^*l^*z \\
& + 108a^4b^2c^3d^*g^*l^2m^*z + 108a^3b^2c^4e^2g^*k^*m^*z - 54a^4b^2c^3e^*f^*l^2m^*z - 54a^3b^4c^2f^*h^*j^*l^2z + 54a^3b^3c^3f^*h^2j^*l^*z - \\
& 54a^3b^3c^3e^*h^2j^*m^*z + 54a^3b^2c^4e^2f^*l^*m^*z + 54a^2b^4c^3e^2h^*j^*m^*z + 27a^3b^4c^2e^*h^*k^*l^2z - 27a^3b^4c^2d^*g^*l^2m^*z + 27a^3b^3c^3g^*h^2j^*k^*z \\
& + 27a^2b^5c^2d^*h^2k^*m^*z - 27a^2b^4c^3e^2h^*k^*l^*z - 27a^2b^4c^3e^2g^*k^*m^*z + 432a^4b^2c^3e^*g^*j^*m^2z + 432a^4b^2c^3d^*h^*j^*m^2z - 270a^4b^2c^3d^*g^*k^*m^2z - 216a^3b^4c^2e^*g^*j^*m^2z \\
& - 216a^3b^4c^2d^*h^*j^*m^2z + 216a^3b^3c^3e^*g^*j^2m^*z + 216a^3b^3c^3d^*h^*j^2m^*z - 162a^3b^2c^4e^*f^2k^*m^*z - 162a^3b^2c^4d^*f^2l^*m^*z - 108a^3b^2c^4f^2h^*j^*k^*z - 108a^3b^2c^4f^2g^*j^*l^*z + 54a^4b^2c^3e^*f^*k^*m^2z \\
& + 54a^4b^2c^3d^*f^*l^*m^2z + 54a^3b^4c^2d^*g^*k^*m^2z - 54a^3b^3c^3f^*h^*j^2k^*z - 54a^3b^3c^3f^*g^*j^2l^*z - 27a^2b^5c^2e^*g^*j^2m^*z - 27a^2b^5c^2d^*h^*j^2m^*z + 27a^2b^4c^3f^2h^*j^*k^*z + 27a^2b^4c^3f^2g^*j^*l^*z \\
& + 27a^2b^4c^3e^*f^2k^*m^*z + 27a^2b^4c^3d^*f^2l^*m^*z + 324a^2b^3c^4d^2g^*j^*m^*z - 270a^3b^2c^4d^*g^2j^*m^*z - 162a^3b^2c^4f^2g^*h^*m^*z + 162a^3b^2c^4e^*g^2j^*l^*z - 162a^2b^3c^4d^2e^*l^*m^*z - 135a^2b^3c^4d^2g^*k^*l^*z + 108a^3b^2c^4d^*g^2k^*l^*z + 54a^4b^2c^3f^*g^*h^*m^2z \\
& + 54a^3b^3c^3f^*g^*j^*k^2z - 54a^3b^2c^4f^*g^2j^*k^*z + 54a^2b^4c^3d^*g^2j^*m^*z - 54a^2b^3c^4d^2f^*k^*m^*z + 27a^3b^3c^3e^*h^*j^*k^2z + 27a^3b^3c^3d^*g^*k^2l^*z + 27a^2b^4c^3f^2g^*h^*m^*z - 27a^2b^4c^3e^*g^2j^*l^*z - 27a^2b^4c^3d^*g^2k^*l^*z + 27a^2b^3c^4d^2h^*j^*l^*z \\
& + 162a^3b^2c^4d^*h^2j^*k^*z - 162a^2b^3c^4d^*e^2k^*m^*z + 108a^3b^2c^4e^*g^2h^*m^*z + 54a^3b^3c^3e^*f^*j^*l^2z + 27a^3b^3c^3d^*g^*j^*l^2z - 27a^2b^4c^3e^*g^2h^*m^*z - 27a^2b^4c^3d^*h^2j^*k^*z + 27a^2b^3c^4e^2g^*j^*k^*z - 621a^3b^3c^3d^*e^*j^*m^2z + 594a^3b^2c^4d^*e^*j^2m^*z + 243a^2b^5c^2d^*e^*j^*m^2z - 243a^2b^4c^3d^*e^*j^2m^*z + 135a^3b^3c^3e^*g^*h^*l^2z - 108a^3b^2c^4e^*g^*h^2l^*z + 108a^3b^2c^4d^*g^*h^2m^*z + 54a^3b^2c^4e^*f^*j^2k^*z + 54a^3b^2c^4e^*f^*h^2m^*z + 54a^3b^2c^4d^*g^*j^2k^*z + 54a^3b^2c^4d^*f^*j^2l^*z - 54a^2b^3c^4e^2f^*h^*m^*z - 27a^2b^5c^2e^*g^*h^*l^2z + 27a^2b^4c^3e^*g^*h^2l^*z - 27a^2b^4c^3d^*g^*h^2m^*z - 27a^2b^3c^4e^2g^*h^*l^*z - 27a^2b^3c^4e^*f^2j^*k^*z - 27a^2b^3c^4d^*f^2j^*l^*z + 162a^2b^2c^5d^2e^*j^*l^*z + 54a^3b^2c^4f^*g^*h^*j^2z - 54a^3b^2c^4d^*f^*j^*k^2z + 54a^2b^3c^4e^*f^2h^*l^*z + 54a^2b^2c^5d^2f^*j^*k^*z - 27a^2b^3c^4f^2g^*h^*j^*z - 270a^2b^2c^5d^2f^*g^*m^*z - 162a^3b^2c^4d^*g^*h^*k^2z + 162a^2b^2c^5d^2g^*h^*k^*z + 162a^2b^2c^5d^2e^2j^*k^*z + 108a^2b^2c^5d^2e^*h^*m^*z - 54a^2b^3c^4d^*f^*g^2m^*z + 27a^2b^4c^3d^*g^*h^*k^2z + 27a^2b^3c^4e^*g^2h^*j^*z + 270a^3b^2c^4d^*e^*h^*l^2z - 270a^2b^2c^5d^*e^2h^*l^*z - 162a^2b^4c^3d^*e^*h^*l^2z + 108a^2b^3c^4d^*e^*h^2l^*z + 108a^2b^2c^5d^*e^2g^*m^*z + 54a^2b^2c^5e^2f^*h^*j^*z + 27a^2b^3c^4d^*g^*h^2j^*z + 162a^2b^2c^5d^*e^*f^2m^*z - 54a^3b^2c^4d^*e^*f^*m^2z - 54a^2b^2c^5d^*f^2g^*k^*z + 135a^2b^3c^4d^*e^*g^*k^2z - 108a^2b^2c^5d^*e^*g^2k^*z + 54a^2b^2c^5d^*f^*g^2j^*z - 54a^2b^2c^5d^*e^*f^*j^2z - 9a^*b^7c^*d^*e^*l^3z - 36a^*b^*c^7d^3e^*g^*z - 1
\end{aligned}$$

$$\begin{aligned}
& 08*a^6*b*c^2*k^2*l^2*m*z + 27*a^5*b^3*c*k^2*l^2*m*z - 18*a^5*b^2*c^2*j*k^3* \\
& m*z - 27*a^4*b^3*c^2*j^3*k*l*z - 108*a^5*b*c^3*h^2*k^2*m*z - 108*a^5*b*c^3* \\
& g^2*l^2*m*z + 108*a^5*b*c^3*h^2*k*l^2*z + 108*a^5*b*c^3*g^2*k*m^2*z + 90*a^ \\
& 5*b^2*c^2*f*l^3*m*z - 18*a^5*b^2*c^2*h*k*k*l^3*z + 18*a^4*b^2*c^3*h^3*k*l*z + \\
& 18*a^4*b^2*c^3*h^3*j*m*z - 108*a^5*b*c^3*h*j^2*l^2*z + 18*a^4*b^3*c^2*f*k^ \\
& 3*m*z - 18*a^3*b^3*c^3*g^3*j*m*z - 9*a^4*b^3*c^2*g*k^3*l*z + 9*a^3*b^3*c^3* \\
& g^3*k*l*z + 252*a^4*b^2*c^3*f*j^3*m*z + 216*a^5*b*c^3*f*j^2*m^2*z + 180*a^3* \\
& b^2*c^4*f^3*j*m*z - 108*a^4*b*c^4*e^2*k^2*m*z - 108*a^4*b*c^4*d^2*l^2*m*z \\
& + 90*a^5*b^2*c^2*e*k*m^3*z + 90*a^5*b^2*c^2*d*l*m^3*z - 90*a^3*b^2*c^4*f^3* \\
& k*l*z + 54*a^3*b^5*c*f*j^2*m^2*z - 54*a^3*b^4*c^2*f*j^3*m*z + 36*a^5*b^2*c^ \\
& 2*f*j*m^3*z + 36*a^4*b^2*c^3*h*j^3*k*z + 36*a^4*b^2*c^3*g*j^3*l*z - 36*a^2* \\
& b^4*c^3*f^3*j*m*z - 27*a^2*b^6*c*f^2*j*m^2*z + 18*a^2*b^4*c^3*f^3*k*l*z - 2 \\
& 16*a^4*b*c^4*d^2*k*m^2*z + 108*a^5*b*c^3*d*k^2*m^2*z - 108*a^4*b^3*c^2*f*j* \\
& l^3*z - 108*a^4*b*c^4*g^2*h^2*m*z + 108*a^2*b^3*c^4*e^3*j*m*z + 90*a^5*b^2* \\
& c^2*g*h*m^3*z + 54*a^4*b^3*c^2*e*k*k*l^3*z - 54*a^2*b^3*c^4*e^3*k*k*l*z + 234*a \\
& ^2*b^2*c^5*d^3*j*m*z - 144*a^2*b^2*c^5*d^3*k*k*l*z + 90*a^4*b^2*c^3*f*j*k^3*z \\
& - 72*a^4*b^2*c^3*d*k^3*l*z + 27*a^4*b^3*c^2*g*h*k^3*z - 27*a^3*b^3*c^3*g*h \\
& ^3*l*z - 18*a^3*b^4*c^2*f*j*k^3*z + 9*a^3*b^4*c^2*d*k^3*l*z + 216*a^4*b*c^4 \\
& *f^2*h*k^2*z - 216*a^4*b*c^4*e^2*h*m^2*z + 108*a^4*b*c^4*g^2*h*k^2*z - 18*a \\
& ^4*b^2*c^3*g*h*k^3*z + 18*a^3*b^2*c^4*g^3*h*k*k*z + 18*a^3*b^2*c^4*f*g^3*m*z \\
& + 9*a^3*b^4*c^2*g*h*k^3*z - 9*a^3*b^3*c^3*e*j^3*k*k*z - 9*a^3*b^3*c^3*d*j^3* \\
& l*z - 144*a^4*b^3*c^2*e*g*m^3*z - 144*a^4*b^3*c^2*d*h*m^3*z - 108*a^3*b*c^5* \\
& e^2*g^2*m*z + 108*a^3*b*c^5*d^2*j^2*k*k*z - 108*a^3*b*c^5*d^2*h^2*m*z - 18*a^ \\
& 2*b^3*c^4*f^3*h*k*k*z - 18*a^2*b^3*c^4*f^3*g*l*z - 9*a^3*b^3*c^3*g*h*j^3*z - \\
& 216*a^4*b*c^4*d*g^2*m^2*z + 144*a^4*b^2*c^3*e*g*l^3*z - 126*a^3*b^2*c^4*d*h \\
& ^3*l*z - 108*a^4*b*c^4*d*h^2*l^2*z - 108*a^3*b*c^5*f^2*g^2*k*k*z - 108*a^3*b* \\
& c^5*e^2*h^2*k*k*z - 90*a^2*b^2*c^5*e^3*f*m*z + 72*a^2*b^2*c^5*e^3*g*l*z - 63* \\
& a^3*b^4*c^2*e*g*l^3*z - 36*a^3*b^4*c^2*d*h*k^3*z + 27*a^2*b^4*c^3*d*h^3*l*z \\
& + 27*a*b^6*c^2*d^2*g*m^2*z - 18*a^4*b^2*c^3*d*h*k^3*z - 18*a^3*b^2*c^4*f*h \\
& ^3*j*z - 18*a^3*b^2*c^4*e*h^3*k*k*z + 18*a^2*b^2*c^5*e^3*h*k*k*z + 108*a^3*b*c^ \\
& 5*e^2*h*j^2*z + 54*a^3*b^3*c^3*d*h*k^3*z + 27*a^3*b^3*c^3*e*g*k^3*z - 27*a^ \\
& 2*b^3*c^4*e*g^3*k*k*z + 27*a^2*b^3*c^4*d*g^3*l*z - 27*a*b^4*c^4*d^2*g^2*l*z - \\
& 9*a^2*b^5*c^2*e*g*k^3*z - 9*a^2*b^5*c^2*d*h*k^3*z + 207*a^3*b^4*c^2*d*e*m^ \\
& 3*z - 108*a^2*b*c^6*d^2*e^2*m*z - 90*a^4*b^2*c^3*d*e*m^3*z - 72*a^3*b^2*c^4 \\
& *e*g*j^3*z - 72*a^3*b^2*c^4*d*h*j^3*z + 27*a*b^3*c^5*d^2*e^2*m*z + 18*a^2*b \\
& ^2*c^5*e*f^3*k*k*z + 18*a^2*b^2*c^5*d*f^3*l*z + 9*a^2*b^4*c^3*e*g*j^3*z + 9*a \\
& ^2*b^4*c^3*d*h*j^3*z - 216*a^3*b*c^5*d*e^2*l^2*z - 198*a^3*b^3*c^3*d*e*l^3* \\
& z + 108*a^3*b*c^5*d*g^2*j^2*z - 108*a^3*b*c^5*d*f^2*k^2*z + 72*a^2*b^5*c^2* \\
& d*e*l^3*z - 27*a*b^5*c^3*d*e^2*l^2*z + 27*a*b^4*c^4*d^2*g*j^2*z + 18*a^2*b^ \\
& 2*c^5*f^3*g*h*z + 144*a^3*b^2*c^4*d*e*k^3*z - 63*a^2*b^4*c^3*d*e*k^3*z + 27 \\
& *a*b^4*c^4*d^2*e*k^2*z - 9*a^2*b^3*c^4*e*g*h^3*z - 108*a^2*b*c^6*d^2*g^2*h* \\
& z + 81*a^2*b^3*c^4*d*e*j^3*z + 27*a*b^3*c^5*d^2*g^2*h*z - 27*a*b^2*c^6*d^2* \\
& e^2*j*z - 18*a^2*b^2*c^5*d*g^3*h*z + 108*a^2*b*c^6*d*e^2*h^2*z - 27*a*b^3*c \\
& ^5*d*e^2*h^2*z + 27*a*b^2*c^6*d^2*f^2*g*z - 18*a^2*b^2*c^5*d*e*h^3*z - 216* \\
& a^6*c^3*j^2*k*l*m*z + 216*a^6*c^3*h*j*l^2*m*z + 216*a^6*c^3*f*k*l*m^2*z - 2
\end{aligned}$$

$$\begin{aligned}
& 16*a^5*c^4*f^2*k*l*m*z - 216*a^5*c^4*g^2*j*k*m*z + 216*a^5*c^4*f*j^2*k*l*z \\
& + 216*a^5*c^4*f*h^2*l*m*z + 216*a^5*c^4*e*j^2*k*m*z + 216*a^5*c^4*d*j^2*l*m \\
& *z + 216*a^5*c^4*g*h*j^2*m*z - 216*a^5*c^4*e*j*k^2*l*z - 216*a^5*c^4*d*j*k^ \\
& 2*m*z + 216*a^4*c^5*d^2*j*k*m*z - 18*a^6*b^2*c*k*l*m^3*z + 216*a^5*c^4*f*g* \\
& k^2*m*z - 216*a^5*c^4*d*j*k*l^2*z - 72*a^6*b*c^2*j*l^3*m*z + 18*a^5*b^3*c*j \\
& *l^3*m*z - 216*a^5*c^4*f*h*j*l^2*z + 216*a^5*c^4*e*h*k*l^2*z + 216*a^5*c^4* \\
& e*f*l^2*m*z - 216*a^4*c^5*e^2*h*k*l*z + 216*a^4*c^5*e^2*h*j*m*z - 216*a^4*c \\
& ^5*e^2*f*l*m*z - 216*a^5*c^4*e*f*k*m^2*z + 216*a^5*c^4*d*g*k*m^2*z - 216*a^ \\
& 5*c^4*d*f*l*m^2*z + 216*a^4*c^5*e*f^2*k*m*z + 216*a^4*c^5*d*f^2*l*m*z + 108 \\
& *a^5*b*c^3*j^3*k*l*z - 216*a^5*c^4*f*g*h*m^2*z + 216*a^4*c^5*f^2*g*h*m*z + \\
& 216*a^4*c^5*f*g^2*j*k*z - 216*a^4*c^5*e*g^2*j*l*z + 216*a^4*c^5*d*g^2*j*m*z \\
& - 72*a^6*b*c^2*h*k*m^3*z - 72*a^6*b*c^2*g*l*m^3*z + 54*a^5*b^3*c*h*k*m^3*z \\
& + 54*a^5*b^3*c*g*l*m^3*z - 216*a^4*c^5*d*h^2*j*k*z - 18*a^4*b^4*c*f*l^3*m* \\
& z + 9*a^4*b^4*c*h*k*l^3*z - 216*a^4*c^5*e*f*j^2*k*z - 216*a^4*c^5*e*f*h^2*m \\
& *z - 216*a^4*c^5*d*g*j^2*k*z - 216*a^4*c^5*d*f*j^2*l*z - 216*a^4*c^5*d*e*j^ \\
& 2*m*z - 72*a^5*b*c^3*f*k^3*m*z + 72*a^4*b*c^4*g^3*j*m*z + 36*a^5*b*c^3*g*k^ \\
& 3*l*z - 36*a^4*b*c^4*g^3*k*l*z - 216*a^4*c^5*f*g*h*j^2*z + 216*a^4*c^5*d*f* \\
& j*k^2*z - 216*a^3*c^6*d^2*f*j*k*z - 216*a^3*c^6*d^2*e*j*l*z + 72*a^4*b^4*c* \\
& f*j*m^3*z - 63*a^4*b^4*c*e*k*m^3*z - 63*a^4*b^4*c*d*l*m^3*z + 216*a^4*c^5*d \\
& *g*h*k^2*z - 216*a^3*c^6*d^2*g*h*k*z + 216*a^3*c^6*d^2*f*g*m*z - 216*a^3*c^ \\
& 6*d*e^2*j*k*z + 144*a^5*b*c^3*f*j*l^3*z - 144*a^3*b*c^5*e^3*j*m*z - 72*a^5* \\
& b*c^3*e*k*l^3*z + 72*a^3*b*c^5*e^3*k*l*z - 63*a^4*b^4*c*g*h*m^3*z + 18*a^3*b \\
& ^5*c*f*j*l^3*z - 18*a*b^5*c^3*e^3*j*m*z - 9*a^3*b^5*c*e*k*l^3*z + 9*a*b^5* \\
& c^3*e^3*k*l*z - 216*a^4*c^5*d*e*h*l^2*z - 216*a^3*c^6*e^2*f*h*j*z + 216*a^3 \\
& *c^6*d*e^2*h*l*z - 126*a*b^4*c^4*d^3*j*m*z + 108*a^4*b*c^4*g*h^3*l*z + 63*a \\
& *b^4*c^4*d^3*k*l*z + 36*a^5*b*c^3*g*h*l^3*z - 9*a^3*b^5*c*g*h*l^3*z + 216*a \\
& ^4*c^5*d*e*f*m^2*z + 216*a^3*c^6*d*f^2*g*k*z - 216*a^3*c^6*d*e*f^2*m*z + 36 \\
& *a^4*b*c^4*e*j^3*k*z + 36*a^4*b*c^4*d*j^3*l*z - 216*a^3*c^6*d*f*g^2*j*z + 7 \\
& 2*a^3*b^5*c*e*g*m^3*z + 72*a^3*b^5*c*d*h*m^3*z + 72*a^3*b*c^5*f^3*h*k*z + 7 \\
& 2*a^3*b*c^5*f^3*g*l*z + 36*a^4*b*c^4*g*h*j^3*z + 18*a*b^4*c^4*e^3*f*m*z + 9 \\
& *a^2*b^6*c*e*g*l^3*z + 9*a^2*b^6*c*d*h*l^3*z - 9*a*b^4*c^4*e^3*h*k*z - 9*a* \\
& b^4*c^4*e^3*g*l*z + 216*a^3*c^6*d*e*f*j^2*z - 144*a^2*b*c^6*d^3*f*m*z + 108 \\
& *a^3*b*c^5*e*g^3*k*z - 108*a^3*b*c^5*d*g^3*l*z + 108*a*b^3*c^5*d^3*f*m*z - \\
& 72*a^4*b*c^4*d*h*k^3*z + 72*a^2*b*c^6*d^3*h*k*z - 54*a*b^3*c^5*d^3*h*k*z + \\
& 36*a^4*b*c^4*e*g*k^3*z - 36*a^2*b*c^6*d^3*g*l*z - 27*a*b^3*c^5*d^3*g*l*z - \\
& 81*a^2*b^6*c*d*e*m^3*z + 216*a^4*b*c^4*d*e*l^3*z + 72*a^2*b*c^6*e^3*f*j*z + \\
& 72*a^2*b*c^6*d*e^3*l*z - 18*a*b^3*c^5*e^3*f*j*z - 18*a*b^3*c^5*d*e^3*l*z - \\
& 90*a*b^2*c^6*d^3*f*j*z + 72*a*b^2*c^6*d^3*e*k*z + 36*a^3*b*c^5*e*g*h^3*z - \\
& 36*a^2*b*c^6*e^3*g*h*z + 9*a*b^6*c^2*d*e*k^3*z + 9*a*b^3*c^5*e^3*g*h*z - 1 \\
& 80*a^3*b*c^5*d*e*j^3*z + 18*a*b^2*c^6*d^3*g*h*z - 9*a*b^5*c^3*d*e*j^3*z + 1 \\
& 8*a*b^2*c^6*d*e^3*h*z + 9*a*b^4*c^4*d*e*h^3*z + 36*a^2*b*c^6*d*e*g^3*z - 9* \\
& a*b^3*c^5*d*e*g^3*z - 18*a*b^2*c^6*d*e*f^3*z + 27*a^5*b^2*c^2*h^2*l*m^2*z - \\
& 27*a^5*b^2*c^2*j*k^2*l^2*z + 27*a^4*b^3*c^2*h^2*k^2*m*z + 27*a^4*b^3*c^2*g \\
& ^2*l^2*m*z + 27*a^5*b^2*c^2*g*k^2*m^2*z - 27*a^4*b^3*c^2*h^2*k*l^2*z - 27*a \\
& ^4*b^3*c^2*g^2*k*m^2*z - 135*a^4*b^2*c^3*e^2*l*m^2*z + 27*a^5*b^2*c^2*e*l^2
\end{aligned}$$

$$\begin{aligned}
& m^2z + 27a^4b^3c^2hj^2l^2z - 27a^4b^2c^3h^2j^2l^2z + 27a^3b^4c^2e^2lm^2z - 270a^4b^3c^2f^2j^2m^2z - 270a^4b^2c^3f^2jm^2z + 162a^3b^4c^2f^2jm^2z - 108a^3b^3c^3f^2j^2m^2z - 27a^4b^2c^3h^2jk^2z - 27a^4b^2c^3g^2j^2l^2z + 27a^3b^3c^3e^2k^2m^2z \\
& + 27a^3b^3c^3d^2l^2m^2z + 27a^2b^5c^2f^2j^2m^2z + 162a^3b^3c^3d^2km^2z - 27a^4b^3c^2dk^2m^2z - 27a^4b^2c^3gj^2k^2z + 27a^3b^3c^3g^2h^2m^2z - 27a^2b^5c^2d^2km^2z + 162a^3b^2c^4d^2k^2l^2z - 108a^4b^2c^3gh^2l^2z - 27a^4b^2c^3ej^2l^2z + 27a^3b^4c^2gh^2l^2z + 27a^3b^2c^4e^2j^2l^2z - 27a^2b^4c^3d^2k^2l^2z - 162a^3b^3c^3f^2hl^2z + 162a^3b^3c^3e^2hm^2z - 135a^4b^2c^3eh^2m^2z + 135a^3b^2c^4f^2h^2l^2z + 27a^3b^4c^2e^2h^2m^2z - 27a^3b^3c^3g^2hk^2z - 27a^3b^2c^4e^2jk^2z - 27a^3b^2c^4d^2j^2l^2z + 27a^2b^5c^2f^2hl^2z - 27a^2b^5c^2e^2hm^2z - 27a^2b^4c^3f^2h^2l^2z - 27a^3b^2c^4g^2h^2j^2z + 27a^2b^3c^4e^2g^2m^2z - 27a^2b^3c^4d^2j^2k^2z + 27a^2b^3c^4d^2h^2m^2z + 351a^3b^2c^4d^2gm^2z - 189a^2b^4c^3d^2gm^2z + 162a^3b^3c^3d^2g^2m^2z - 162a^3b^2c^4e^2gl^2z + 135a^3b^3c^3d^2h^2l^2z + 135a^3b^2c^4f^2gk^2z - 27a^2b^5c^2d^2h^2l^2z - 27a^2b^5c^2d^2g^2m^2z - 27a^2b^4c^3f^2gk^2z + 27a^2b^4c^3e^2gl^2z + 27a^2b^3c^4f^2g^2k^2z + 27a^2b^3c^4e^2h^2k^2z + 135a^3b^2c^4ef^2l^2z - 108a^3b^2c^4eg^2k^2z + 108a^2b^2c^5d^2g^2l^2z + 27a^3b^2c^4eh^2j^2z + 27a^2b^4c^3eg^2k^2z - 27a^2b^4c^3ef^2l^2z - 27a^2b^3c^4e^2hj^2z - 27a^2b^2c^5e^2f^2l^2z - 27a^2b^2c^5e^2g^2j^2z - 27a^2b^2c^5d^2h^2j^2z + 162a^2b^3c^4d^2e^2l^2z - 135a^2b^2c^5d^2gj^2z - 27a^2b^3c^4d^2g^2j^2z + 27a^2b^3c^4d^2f^2k^2z - 162a^2b^2c^5d^2ek^2z - 27a^2b^2c^5ef^2h^2z - 72a^7c^2k^1m^3z + 9a^5b^4k^1m^3z + 72a^6c^3jk^3m^2z - 72a^6c^3hk^1^3z - 72a^6c^3f^1^3m^2z - 72a^5c^4h^3k^1z - 72a^5c^4h^3jm^2z - 9a^4b^5hk^1m^3z - 9a^4b^5g^1m^3z - 144a^6c^3f^2jm^3z - 144a^5c^4hj^3k^2z - 144a^5c^4gj^3l^2z - 144a^5c^4f^2j^3m^2z - 144a^4c^5f^3jm^2z + 72a^6c^3ek^1m^3z + 72a^6c^3d^1m^3z + 72a^4c^5f^3k^1z + 72a^6c^3gh^1m^3z + 18b^6c^3d^3jm^2z - 18a^3b^6f^2jm^3z - 9b^6c^3d^3k^1z + 9a^3b^6ek^1m^3z + 9a^3b^6d^1m^3z + 144a^5c^4dk^3l^2z + 144a^3c^6d^3k^1z - 72a^5c^4f^2jk^3z - 72a^3c^6d^3jm^2z + 9a^3b^6gh^1m^3z - 72a^5c^4gh^1k^3z - 72a^4c^5g^3hk^2z - 72a^4c^5fg^3m^2z - 108a^5b^3c^3j^4m^2z + 63a^6b^2c^3jm^4z + 36a^6b^2c^2k^1^4z - 9a^5b^3c^3k^1^4z - 144a^5c^4eg^1^3z - 144a^3c^6e^3g^1z + 72a^5c^4d^2h^1^3z + 72a^4c^5f^2h^3j^2z + 72a^4c^5eh^3k^2z + 72a^4c^5d^2h^3l^2z + 72a^3c^6e^3hk^2z + 72a^3c^6e^3f^2m^2z - 18b^5c^4d^3f^2m^2z + 9b^5c^4d^3hk^2z + 9b^5c^4d^3g^1z - 9a^2b^7eg^1m^3z - 9a^2b^7d^2hm^3z + 144a^4c^5eg^2j^3z + 144a^4c^5d^2hj^3z - 72a^5c^4d^2em^3z - 72a^3c^6ef^3k^2z - 72a^3c^6d^2f^3l^2z + 144a^6b^2c^2f^2m^4z - 108a^5b^3c^3f^2m^4z - 72a^3c^6f^3g^2h^2z + 36a^5b^3c^3hk^4z - 36a^3b^3c^5f^4m^2z + 18b^4c^5d^3f^2j^2z - 9b^4c^5d^3ek^2z + 9a^4b^4c^2g^1^4z - 144a^4c^5dek^3z - 14
\end{aligned}$$

$$\begin{aligned}
& 4*a^2*c^7*d^3*e*k*z + 72*a^2*c^7*d^3*f*j*z - 9*b^4*c^5*d^3*g*h*z + 72*a^3*c^6*d*g^3*h*z + 72*a^2*c^7*d^3*g*h*z - 72*a^5*b*c^3*d*l^4*z - 72*a^4*b*c^4*f*j^4*z + 45*a*b^2*c^6*d^4*l*z - 36*a^2*b*c^6*e^4*k*z - 9*a^3*b^5*c*d*l^4*z + 9*a*b^3*c^5*e^4*k*z - 72*a^3*c^6*d*e*h^3*z - 72*a^2*c^7*d*e^3*h*z + 9*b^3*c^6*d^3*e*g*z + 72*a^2*c^7*d*e*f^3*z + 36*a^3*b*c^5*d*h^4*z - 9*a*b^2*c^6*e^4*g*z + 36*a*b*c^7*d^3*f^2*z + 90*a^5*b^2*c^2*j^3*m^2*z + 45*a^5*b^2*c^2*j^2*l^3*z + 9*a^4*b^3*c^2*j^2*k^3*z - 9*a^4*b^3*c^2*h^3*m^2*z - 45*a^4*b^2*c^3*g^3*m^2*z + 9*a^3*b^4*c^2*g^3*m^2*z + 198*a^4*b^3*c^2*f^2*m^3*z - 108*a^3*b^3*c^3*f^3*m^2*z + 18*a^2*b^5*c^2*f^3*m^2*z - 117*a^4*b^2*c^3*f^2*l^3*z + 117*a^3*b^2*c^4*e^3*m^2*z + 63*a^3*b^4*c^2*f^2*l^3*z - 63*a^2*b^4*c^3*e^3*m^2*z - 171*a^2*b^3*c^4*d^3*m^2*z - 54*a^3*b^3*c^3*f^2*k^3*z + 9*a^3*b^2*c^4*g^3*j^2*z + 9*a^2*b^5*c^2*f^2*k^3*z + 18*a^3*b^2*c^4*f^2*j^3*z + 18*a^2*b^3*c^4*f^3*j^2*z - 9*a^2*b^4*c^3*f^2*j^3*z - 45*a^2*b^2*c^5*e^3*j^2*z + 9*a^2*b^3*c^4*f^2*h^3*z - 9*a^2*b^2*c^5*f^2*g^3*z + 9*a*b^8*d*e*m^3*z - 36*a*b*c^7*d^4*h*z - 108*a^6*c^3*h^2*l*m^2*z + 108*a^6*c^3*j*k^2*l^2*z - 108*a^6*c^3*g*k^2*m^2*z - 108*a^6*c^3*e*l^2*m^2*z + 108*a^5*c^4*h^2*j^2*l*z + 108*a^5*c^4*e^2*l*m^2*z + 216*a^5*c^4*f^2*j*m^2*z + 108*a^5*c^4*h^2*j*k^2*z + 108*a^5*c^4*g^2*j*l^2*z + 108*a^5*c^4*g*j^2*k^2*z - 216*a^4*c^5*d^2*k^2*l*z + 108*a^5*c^4*e*j^2*l^2*z - 108*a^4*c^5*e^2*j^2*l*z - 9*a^6*b^2*c^1^3*m^2*z + 108*a^5*c^4*e*h^2*m^2*z - 108*a^4*c^5*f^2*h^2*l*z + 108*a^4*c^5*e^2*j*k^2*z + 108*a^4*c^5*d^2*j*l^2*z - 144*a^6*b*c^2*j^2*m^3*z + 108*a^4*c^5*g^2*h^2*j*z - 27*a^4*b^4*c*j^3*m^2*z + 27*a^4*b^3*c^2*j^4*m*z + 9*a^5*b^2*c^2*k^4*l*z + 216*a^4*c^5*e^2*g*l^2*z - 108*a^4*c^5*f^2*g*k^2*z - 108*a^4*c^5*d^2*g*m^2*z - 9*a^4*b^4*c*j^2*l^3*z - 108*a^4*c^5*e*h^2*j^2*z - 108*a^4*c^5*e*f^2*l^2*z + 108*a^3*c^6*e^2*f^2*l*z - 36*a^5*b*c^3*j^2*k^3*z + 36*a^5*b*c^3*h^3*m^2*z + 108*a^3*c^6*e^2*g^2*j*z + 108*a^3*c^6*d^2*h^2*j*z - 216*a^5*b*c^3*f^2*m^3*z + 144*a^4*b*c^4*f^3*m^2*z + 108*a^3*c^6*d^2*g*j^2*z - 72*a^3*b^5*c*f^2*m^3*z - 45*a^5*b^2*c^2*g*l^4*z - 9*a^4*b^3*c^2*h*k^4*z - 9*a^3*b^2*c^4*g^4*l*z + 9*a^2*b^3*c^4*f^4*m*z + 216*a^3*c^6*d^2*e*k^2*z - 9*a^2*b^6*c*f^2*l^3*z + 9*a*b^6*c^2*e^3*m^2*z + 108*a^3*c^6*e*f^2*h^2*z + 108*a^3*b*c^5*d^3*m^2*z + 108*a^2*c^7*d^2*e^2*j*z + 72*a^4*b*c^4*f^2*k^3*z + 72*a*b^5*c^3*d^3*m^2*z - 72*a^3*b*c^5*f^3*j^2*z + 54*a^4*b^3*c^2*d*l^4*z - 45*a^4*b^2*c^3*e*k^4*z + 18*a^3*b^3*c^3*f*j^4*z + 9*a^3*b^4*c^2*e*k^4*z - 9*a^2*b^2*c^5*f^4*j*z - 108*a^2*c^7*d^2*f^2*g*z + 9*a^3*b^2*c^4*g*h^4*z + 9*a*b^4*c^4*e^3*j^2*z - 72*a^2*b*c^6*d^3*j^2*z + 54*a*b^3*c^5*d^3*j^2*z - 36*a^3*b*c^5*f^2*h^3*z - 9*a^2*b^3*c^4*d*h^4*z + 9*a^2*b^2*c^5*e*g^4*z + 9*a*b^2*c^6*e^3*f^2*z + 36*a^7*c^2*l^3*m^2*z + 72*a^6*c^3*j^3*m^2*z - 36*a^6*c^3*j^2*l^3*z + 9*a^4*b^5*j^2*m^3*z + 36*a^5*c^4*g^3*m^2*z + 36*a^5*c^4*f^2*l^3*z - 36*a^4*c^5*e^3*m^2*z - 9*b^7*c^2*d^3*m^2*z + 9*a^2*b^7*f^2*m^3*z - 36*a^4*c^5*g^3*j^2*z + 72*a^4*c^5*f^2*j^3*z + 36*a^3*c^6*e^3*j^2*z - 9*b^5*c^4*d^3*j^2*z + 36*a^3*c^6*f^2*g^3*z - 9*a^4*b^2*c^3*j^5*z - 36*a^2*c^7*e^3*f^2*z - 9*b^3*c^6*d^3*f^2*z + 36*a^7*c^2*j*m^4*z - 36*a^6*c^3*k^4*l*z - 18*a^5*b^4*j*m^4*z + 36*a^6*c^3*g*l^4*z + 36*a^4*c^5*g^4*l*z + 18*a^4*b^5*f*m^4*z - 9*b^4*c^5*d^4*l*z + 36*a^5*c^4*e*k^4*z + 36*a^3*c^6*f^4*j*z - 36*a^2*c^7*d^4*l*z - 36*a^4*c^5*g*h^4*z + 9*b^3*c^6*d^4*h*z - 36*a^3*c^6*e*g^4*z + 36*a^2*c
\end{aligned}$$

$$\begin{aligned}
& c^7 e^4 g^* z - 9 b^2 c^7 d^4 e^* z - 36 a^7 b^* c^* m^5 z + 36 a^* c^8 d^4 e^* z + 9 a^6 b^3 m^5 z + 36 a^5 c^4 j^5 z + 9 a^4 b^3 c^* g^* h^* j^* k^* l^* m - 9 a^3 b^4 c^* e^* g^* j^* k^* l^* m - 9 a^3 b^4 c^* d^* h^* j^* k^* l^* m - 9 a^3 b^4 c^* f^* g^* h^* k^* l^* m + 36 a^4 b^* c^3 d^* e^* j^* k^* l^* m + 9 a^2 b^5 c^* d^* e^* j^* k^* l^* m + 36 a^4 b^* c^3 e^* f^* h^* j^* l^* m + 36 a^4 b^* c^3 e^* f^* g^* k^* l^* m + 36 a^4 b^* c^3 d^* f^* h^* k^* l^* m + 9 a^2 b^5 c^* e^* f^* g^* k^* l^* m + 9 a^2 b^5 c^* d^* f^* h^* k^* l^* m + 36 a^3 b^* c^4 d^* e^* f^* j^* k^* l^* + 9 a^* b^5 c^2 d^* e^* f^* j^* k^* l^* + 36 a^3 b^* c^4 d^* e^* g^* h^* k^* l^* + 36 a^3 b^* c^4 d^* e^* f^* h^* k^* m + 36 a^3 b^* c^4 d^* e^* f^* g^* l^* m + 9 a^* b^5 c^2 d^* e^* f^* h^* k^* m + 9 a^* b^5 c^2 d^* e^* f^* g^* l^* m - 9 a^* b^4 c^3 d^* e^* f^* h^* j^* k - 9 a^* b^4 c^3 d^* e^* f^* g^* j^* l - 9 a^* b^4 c^3 d^* e^* f^* g^* h^* m + 9 a^* b^3 c^4 d^* e^* f^* g^* h^* j - 9 a^* b^6 c^* d^* e^* f^* k^* l^* m + 18 a^4 b^2 c^2 e^* g^* j^* k^* l^* m + 18 a^4 b^2 c^2 d^* h^* j^* k^* l^* m + 18 a^4 b^2 c^2 f^* g^* h^* k^* l^* m - 36 a^3 b^3 c^2 d^* e^* j^* k^* l^* m - 36 a^3 b^3 c^2 e^* f^* g^* k^* l^* m - 36 a^3 b^3 c^2 d^* f^* h^* k^* l^* m + 9 a^3 b^3 c^2 f^* g^* h^* j^* k^* l^* + 9 a^3 b^3 c^2 e^* g^* h^* j^* k^* m + 9 a^3 b^3 c^2 d^* g^* h^* j^* l^* m - 108 a^3 b^2 c^3 d^* e^* f^* k^* l^* m + 54 a^2 b^4 c^2 d^* e^* f^* k^* l^* m - 36 a^3 b^2 c^3 d^* f^* g^* j^* k^* m + 18 a^3 b^2 c^3 e^* f^* g^* j^* k^* l^* + 18 a^3 b^2 c^3 d^* f^* h^* j^* k^* l^* + 18 a^3 b^2 c^3 d^* e^* h^* j^* k^* m + 18 a^3 b^2 c^3 d^* e^* g^* j^* l^* m - 9 a^2 b^4 c^2 e^* f^* g^* j^* k^* l^* - 9 a^2 b^4 c^2 d^* f^* h^* j^* k^* l^* - 9 a^2 b^4 c^2 d^* e^* h^* j^* k^* m - 9 a^2 b^4 c^2 d^* e^* g^* j^* l^* m + 18 a^3 b^2 c^3 e^* f^* g^* h^* k^* m + 18 a^3 b^2 c^3 d^* f^* g^* h^* l^* m - 9 a^2 b^4 c^2 e^* f^* g^* h^* k^* m - 9 a^2 b^4 c^2 d^* f^* g^* h^* l^* m - 36 a^2 b^3 c^3 d^* e^* f^* j^* k^* l^* - 36 a^2 b^3 c^3 d^* e^* f^* h^* k^* m - 36 a^2 b^3 c^3 d^* e^* f^* g^* l^* m + 9 a^2 b^3 c^3 e^* f^* g^* h^* j^* k + 9 a^2 b^3 c^3 d^* f^* g^* h^* j^* l + 9 a^2 b^3 c^3 d^* e^* g^* h^* j^* m + 18 a^2 b^2 c^4 d^* e^* f^* h^* j^* k + 18 a^2 b^2 c^4 d^* e^* f^* g^* j^* l + 18 a^2 b^2 c^4 d^* e^* f^* g^* h^* m - 9 a^5 b^2 c^* h^* j^* k^2 l^* m - 9 a^5 b^2 c^* g^* j^* k^* l^2 m + 27 a^5 b^2 c^* f^* j^* k^* l^* m^2 - 9 a^4 b^3 c^* f^* j^2 k^* l^* m + 9 a^3 b^4 c^* f^2 j^* k^* l^* m - 18 a^5 b^* c^2 e^* j^* k^2 l^* m - 9 a^5 b^2 c^* g^* h^* k^* l^* m^2 + 9 a^4 b^3 c^* e^* j^* k^2 l^* m - 18 a^5 b^* c^2 f^* h^* k^2 l^* m - 18 a^5 b^* c^2 d^* j^* k^* l^2 m + 9 a^4 b^3 c^* f^* h^* k^2 l^* m + 9 a^4 b^3 c^* d^* j^* k^* l^2 m + 36 a^5 b^* c^2 e^* h^* k^* l^2 m - 36 a^4 b^* c^3 e^2 h^* k^* l^* m + 18 a^5 b^* c^2 f^* h^* j^* l^2 m - 18 a^5 b^* c^2 f^* g^* k^* l^2 m - 18 a^4 b^3 c^* e^* h^* k^* l^2 m + 9 a^4 b^3 c^* f^* g^* k^* l^2 m + 9 a^3 b^4 c^* e^* h^2 k^* l^* m - 9 a^2 b^5 c^* e^2 h^* k^* l^* m - 54 a^5 b^* c^2 e^* h^* j^* l^* m^2 - 18 a^5 b^* c^2 e^* g^* k^* l^* m^2 - 18 a^5 b^* c^2 d^* h^* k^* l^* m^2 + 18 a^4 b^3 c^* e^* h^* j^* l^* m^2 - 9 a^4 b^3 c^* f^* h^* j^* k^* m^2 - 9 a^4 b^3 c^* f^* g^* j^* l^* m^2 + 9 a^4 b^3 c^* e^* g^* k^* l^* m^2 + 9 a^4 b^3 c^* d^* h^* k^* l^* m^2 + 18 a^4 b^* c^3 f^* g^2 j^* k^* m - 18 a^4 b^* c^3 e^* g^2 j^* l^* m + 18 a^3 b^4 c^* d^* g^* k^2 l^* m - 9 a^3 b^4 c^* e^* f^* k^2 l^* m - 9 a^2 b^5 c^* d^* g^2 k^* l^* m - 18 a^4 b^* c^3 f^* g^2 h^* l^* m - 18 a^4 b^* c^3 d^* h^2 j^* k^* m - 9 a^3 b^4 c^* d^* f^* k^* l^2 m - 54 a^4 b^* c^3 d^* g^* j^2 k^* m - 18 a^4 b^* c^3 f^* g^* h^2 k^* m - 18 a^4 b^* c^3 e^* g^* j^2 k^* l - 18 a^4 b^* c^3 d^* h^* j^2 k^* l - 18 a^3 b^4 c^* d^* g^* j^* k^* m^2 + 9 a^3 b^4 c^* e^* f^* j^* k^* m^2 + 9 a^3 b^4 c^* d^* f^* j^* l^* m^2 - 9 a^3 b^4 c^* d^* e^* k^* l^* m^2 - 54 a^3 b^* c^4 d^2 f^* j^* k^* m + 36 a^4 b^* c^3 d^* g^* j^* k^2 l - 36 a^3 b^* c^4 d^2 g^* j^* k^* l - 18 a^4 b^* c^3 e^* f^* j^* k^2 l + 18 a^4 b^* c^3 d^* f^* j^* k^2 m - 18 a^3 b^* c^4 d^2 e^* j^* l^* m + 9 a^3 b^4 c^* f^* g^* h^* j^* m^2 - 9 a^* b^5 c^2 d^2 g^* j^* k^* l + 36 a^4 b^* c^3 d^* g^* h^* k^2 m - 36 a^3 b^* c^4 d^2 g^* h^* k^* m + 18 a^4 b^* c^3 e^* g^* h^* k^2 l - 18 a^4 b^* c^3 e^* f^* h^* k^2 m - 18 a^4 b^* c^3 d^* f^* j^* k^* l^2 - 18 a^3 b^* c^4 d^2 f^* h^* l^* m - 18 a^3 b^* c^4 d^* e^2 j^* k^* m - 9 a^* b^5 c^2 d^2 g^* h^* k^* m - 54 a^4 b^* c^3 d^* g^* h^* k^* l^2 - 54 a^3 b^* c^4 e^2 f^* h^* j^* m - 18 a^4 b^* c^3 d^* f^* g^* l^2 m - 18 a^3 b^* c^4 e^2 f^* g^* k^* m - 54 a^4 b^* c^3
\end{aligned}$$

$$\begin{aligned}
& *d*f*g*k*m^2 - 36*a^4*b*c^3*e*f*g*j*m^2 - 36*a^4*b*c^3*d*f*h*j*m^2 + 36*a^3 \\
& *b*c^4*e*f^2*g*j*m + 36*a^3*b*c^4*d*f^2*h*j*m - 18*a^4*b*c^3*d*e*h*k*m^2 - \\
& 18*a^4*b*c^3*d*e*g*1*m^2 + 18*a^3*b*c^4*e*f^2*h*j*1 - 18*a^3*b*c^4*e*f^2*g* \\
& k*1 - 18*a^3*b*c^4*d*f^2*h*k*1 + 18*a^3*b*c^4*d*f^2*g*k*m - 9*a^2*b^5*c*e*f \\
& *g*j*m^2 - 9*a^2*b^5*c*d*f*h*j*m^2 - 54*a^3*b*c^4*d*f*g^2*j*m - 18*a^3*b*c^ \\
& 4*e*f*g^2*j*1 - 18*a*b^4*c^3*d^2*f*g*j*m + 9*a*b^4*c^3*d^2*g*h*j*k + 9*a*b^ \\
& 4*c^3*d^2*f*g*k*1 + 9*a*b^4*c^3*d^2*e*g*k*m - 9*a*b^4*c^3*d^2*e*f*1*m - 18* \\
& a^3*b*c^4*e*f*g^2*h*m - 18*a^3*b*c^4*d*f*h^2*j*k - 9*a*b^4*c^3*d*e^2*f*k*m \\
& + 18*a^3*b*c^4*d*f*g*j^2*k - 18*a^3*b*c^4*d*f*g*h^2*m - 18*a^3*b*c^4*d*e*h* \\
& j^2*k - 18*a^3*b*c^4*d*e*g*j^2*1 + 18*a*b^4*c^3*d*e*f^2*j*m - 9*a*b^5*c^2*d \\
& *e*f*j^2*m - 9*a*b^4*c^3*d*e*f^2*k*1 - 18*a^2*b*c^5*d^2*e*f*j*1 - 9*a*b^3*c \\
& ^4*d^2*e*g*j*k + 9*a*b^3*c^4*d^2*e*f*j*1 - 54*a^2*b*c^5*d^2*e*g*h*1 - 18*a^ \\
& 2*b*c^5*d^2*e*f*h*m - 18*a^2*b*c^5*d*e^2*f*j*k + 18*a*b^3*c^4*d^2*e*g*h*1 - \\
& 9*a*b^3*c^4*d^2*f*g*h*k + 9*a*b^3*c^4*d^2*e*f*h*m + 9*a*b^3*c^4*d*e^2*f*j* \\
& k - 36*a^3*b*c^4*d*e*f*h*1^2 + 36*a^2*b*c^5*d*e^2*f*h*1 + 18*a^2*b*c^5*d*e^ \\
& 2*g*h*k - 18*a^2*b*c^5*d*e^2*f*g*m - 18*a*b^3*c^4*d*e^2*f*h*1 - 9*a*b^5*c^2 \\
& *d*e*f*h*1^2 + 9*a*b^4*c^3*d*e*f*h^2*1 + 9*a*b^3*c^4*d*e^2*f*g*m - 18*a^2*b \\
& *c^5*d*e*f^2*h*k - 18*a^2*b*c^5*d*e*f^2*g*1 + 9*a*b^3*c^4*d*e*f^2*h*k + 9*a \\
& *b^3*c^4*d*e*f^2*g*1 + 27*a*b^2*c^5*d^2*e*f*g*k + 9*a*b^4*c^3*d*e*f*g*k^2 - \\
& 9*a*b^3*c^4*d*e*f*g^2*k - 9*a*b^2*c^5*d^2*e*f*h*j - 9*a*b^2*c^5*d*e^2*f*g* \\
& j - 9*a*b^2*c^5*d*e*f^2*g*h + 72*a^4*c^4*d*f*g*j*k*m + 72*a^4*c^4*d*e*f*k*1 \\
& *m + 9*a*b^6*c*d^2*g*k*1*m + 9*a*b^6*c*d*e*f*j*m^2 - 27*a^4*b^2*c^2*f^2*j*k \\
& *1*m - 9*a^4*b^2*c^2*g^2*h*j*1*m + 36*a^3*b^3*c^2*e^2*h*k*1*m - 18*a^4*b^2* \\
& c^2*e*h^2*k*1*m - 9*a^4*b^2*c^2*g*h^2*j*k*m + 18*a^4*b^2*c^2*f*h*j^2*k*m + \\
& 18*a^4*b^2*c^2*f*g*j^2*1*m - 18*a^4*b^2*c^2*e*h*j^2*1*m - 9*a^4*b^2*c^2*g*h \\
& *j^2*k*1 - 9*a^3*b^3*c^2*f^2*h*j*k*m - 9*a^3*b^3*c^2*f^2*g*j*1*m - 63*a^4*b \\
& ^2*c^2*d*g*k^2*1*m + 63*a^3*b^2*c^3*d^2*g*k*1*m - 45*a^2*b^4*c^2*d^2*g*k*1* \\
& m + 36*a^4*b^2*c^2*e*f*k^2*1*m + 27*a^3*b^3*c^2*d*g^2*k*1*m - 9*a^4*b^2*c^2 \\
& *f*h*j*k^2*1 - 9*a^4*b^2*c^2*e*h*j*k^2*m + 9*a^3*b^3*c^2*e*g^2*j*1*m - 9*a^ \\
& 3*b^2*c^3*d^2*h*j*1*m + 36*a^4*b^2*c^2*d*f*k*1^2*m + 27*a^4*b^2*c^2*e*h*j*k \\
& *1^2 - 27*a^3*b^2*c^3*e^2*h*j*k*1 - 18*a^3*b^2*c^3*e^2*f*j*1*m - 9*a^4*b^2* \\
& c^2*f*g*j*k*1^2 - 9*a^4*b^2*c^2*d*g*j*1^2*m + 9*a^3*b^3*c^2*f*g^2*h*1*m - 9 \\
& *a^3*b^3*c^2*e*h^2*j*k*1 + 9*a^3*b^3*c^2*d*h^2*j*k*m - 9*a^3*b^2*c^3*e^2*g* \\
& j*k*m + 9*a^2*b^4*c^2*e^2*h*j*k*1 + 72*a^4*b^2*c^2*d*g*j*k*m^2 + 36*a^4*b^2 \\
& *c^2*d*e*k*1*m^2 + 27*a^4*b^2*c^2*e*g*h*1^2*m - 27*a^4*b^2*c^2*e*f*j*k*m^2 \\
& - 27*a^4*b^2*c^2*d*f*j*1*m^2 - 27*a^3*b^2*c^3*e^2*g*h*1*m + 27*a^3*b^2*c^3* \\
& e*f^2*j*k*m + 27*a^3*b^2*c^3*d*f^2*j*1*m + 18*a^3*b^3*c^2*d*g*j^2*k*m + 9*a \\
& ^3*b^3*c^2*f*g*h^2*k*m + 9*a^3*b^3*c^2*e*g*j^2*k*1 - 9*a^3*b^3*c^2*e*g*h^2* \\
& 1*m - 9*a^3*b^3*c^2*e*f*j^2*k*m + 9*a^3*b^3*c^2*d*h*j^2*k*1 - 9*a^3*b^3*c^2 \\
& *d*f*j^2*1*m + 9*a^2*b^4*c^2*e^2*g*h*1*m + 36*a^2*b^3*c^3*d^2*g*j*k*1 - 27* \\
& a^4*b^2*c^2*f*g*h*j*m^2 + 27*a^3*b^2*c^3*f^2*g*h*j*m - 18*a^4*b^2*c^2*e*f*h \\
& *1*m^2 - 18*a^3*b^3*c^2*d*g*j*k^2*1 - 18*a^3*b^2*c^3*d*g^2*j*k*1 + 18*a^2*b \\
& ^3*c^3*d^2*f*j*k*m - 9*a^4*b^2*c^2*e*g*h*k*m^2 - 9*a^4*b^2*c^2*d*g*h*1*m^2 \\
& - 9*a^3*b^3*c^2*f*g*h*j^2*m + 9*a^3*b^3*c^2*e*f*j*k^2*1 - 9*a^3*b^2*c^3*f^2 \\
& *g*h*k*1 + 9*a^2*b^4*c^2*d*g^2*j*k*1 + 9*a^2*b^3*c^3*d^2*e*j*1*m + 36*a^3*b
\end{aligned}$$

$$\begin{aligned}
& ^2c^3efg^2l^2m + 36a^2b^3c^3d^2gh^2k^2m - 18a^3b^3c^2dgh^2k^2m - 18a^3b^2c^3dgh^2h^2k^2m + 9a^3b^3c^2efh^2k^2m + 9a^3b^3c^2d^2f^2jk^2l^2 - 9a^3b^2c^3f^2g^2h^2j^2l - 9a^3b^2c^3efg^2h^2j^2m - 9a^2b^4c^2efg^2l^2m + 9a^2b^4c^2dgh^2h^2k^2m + 9a^2b^3c^3d^2f^2h^2l^2m + 9a^2b^3c^3d^2e^2j^2k^2m + 36a^3b^2c^3d^2f^2h^2k^2m + 36a^3b^2c^3d^2ef^2j^2k^2l + 18a^3b^3c^2dgh^2h^2k^2l^2 + 18a^3b^2c^3efgh^2j^2l + 18a^3b^2c^3efh^2k^2l - 18a^3b^2c^3efh^2j^2m - 18a^3b^2c^3dgh^2k^2l + 18a^3b^2c^3d^2e^2h^2l^2m + 18a^2b^3c^3e^2f^2h^2j^2m - 9a^3b^3c^2efgh^2j^2l^2 - 9a^3b^3c^2efh^2k^2l^2 + 9a^3b^3c^2d^2f^2g^2l^2m - 9a^3b^3c^2d^2e^2h^2l^2m - 9a^3b^2c^3f^2g^2h^2j^2k - 9a^3b^2c^3d^2gh^2j^2m - 9a^2b^4c^2d^2f^2h^2k^2m - 9a^2b^4c^2d^2ef^2j^2k^2l - 9a^2b^3c^3e^2gh^2j^2l - 9a^2b^3c^3e^2f^2h^2k^2l + 9a^2b^3c^3e^2f^2g^2k^2m - 9a^2b^3c^3d^2e^2h^2l^2m + 36a^3b^3c^2ef^2g^2j^2m^2 + 36a^3b^3c^2d^2f^2h^2j^2m^2 + 18a^3b^3c^2d^2f^2g^2k^2m^2 - 18a^3b^2c^3ef^2g^2j^2m - 18a^3b^2c^3d^2f^2h^2j^2m - 18a^2b^3c^3ef^2g^2j^2m - 18a^2b^3c^3d^2f^2h^2j^2m + 9a^3b^3c^2d^2e^2h^2k^2m^2 + 9a^3b^3c^2d^2ef^2g^2l^2m^2 - 9a^3b^2c^3efgh^2j^2k - 9a^3b^2c^3d^2gh^2j^2l + 9a^2b^4c^2ef^2g^2j^2m + 9a^2b^4c^2d^2f^2h^2j^2m + 9a^2b^3c^3ef^2g^2k^2l + 9a^2b^3c^3d^2f^2h^2k^2l + 72a^2b^2c^4d^2f^2g^2j^2m + 36a^2b^2c^4d^2ef^2l^2m + 27a^3b^2c^3d^2gh^2j^2k^2 + 27a^3b^2c^3d^2f^2g^2k^2l + 27a^3b^2c^3d^2ef^2g^2k^2m - 27a^2b^2c^4d^2gh^2j^2k - 27a^2b^2c^4d^2f^2g^2k^2l - 27a^2b^2c^4d^2ef^2g^2k^2m + 18a^2b^3c^3d^2f^2g^2j^2m - 18a^2b^2c^4d^2ef^2h^2k^2l - 9a^3b^2c^3ef^2h^2j^2k^2 + 9a^2b^3c^3ef^2g^2j^2l - 9a^2b^3c^3d^2gh^2h^2j^2k - 9a^2b^3c^3d^2f^2g^2k^2l - 9a^2b^3c^3d^2ef^2g^2k^2m - 9a^2b^2c^4d^2f^2h^2j^2l - 9a^2b^2c^4d^2ef^2h^2j^2m + 36a^2b^2c^4d^2ef^2k^2m - 27a^3b^2c^3d^2ef^2h^2j^2l^2 + 27a^2b^2c^4d^2ef^2h^2j^2l - 18a^3b^2c^3d^2ef^2g^2k^2l^2 - 9a^3b^2c^3d^2f^2g^2j^2l^2 + 9a^2b^4c^2d^2ef^2h^2j^2l^2 + 9a^2b^3c^3ef^2g^2h^2m + 9a^2b^3c^3d^2f^2h^2j^2k - 9a^2b^3c^3d^2ef^2h^2j^2l - 9a^2b^2c^4ef^2f^2g^2j^2k - 9a^2b^2c^4d^2ef^2g^2j^2m + 63a^3b^2c^3d^2ef^2j^2m^2 - 63a^2b^2c^4d^2ef^2j^2m - 45a^2b^4c^2d^2ef^2j^2m^2 + 36a^2b^2c^4d^2ef^2k^2l - 27a^3b^2c^3ef^2gh^2l^2 + 27a^2b^3c^3d^2ef^2j^2m + 27a^2b^2c^4ef^2f^2gh^2l + 9a^2b^4c^2ef^2gh^2l^2 - 9a^2b^3c^3ef^2gh^2l + 9a^2b^3c^3d^2f^2gh^2m + 9a^2b^3c^3d^2ef^2h^2j^2k + 9a^2b^3c^3d^2ef^2g^2j^2l + 18a^2b^2c^4d^2ef^2j^2k - 9a^3b^2c^3d^2ef^2gh^2m^2 - 9a^2b^3c^3d^2ef^2g^2j^2k^2 - 9a^2b^2c^4ef^2f^2gh^2k - 9a^2b^2c^4d^2f^2gh^2l + 18a^2b^2c^4d^2f^2gh^2h^2k - 18a^2b^2c^4d^2ef^2gh^2h^2l - 9a^2b^3c^3d^2f^2gh^2k^2 - 9a^2b^2c^4ef^2f^2gh^2h^2j + 36a^2b^3c^3d^2ef^2h^2l^2 - 18a^2b^2c^4d^2ef^2h^2l - 9a^2b^2c^4d^2f^2gh^2h^2j - 9a^2b^2c^4d^2ef^2gh^2j^2 - 27a^2b^2c^4d^2ef^2g^2k^2 + 18a^2b^2c^4d^2f^2h^2k^2 - 9a^2b^3c^3ef^2f^2g^2k^2 - 9a^2b^2c^4ef^2f^2h^2j^2 - 9a^2b^2c^4d^2f^2h^2k + 45a^2b^3c^3d^2ef^2m^2 + 36a^2b^2c^4d^2ef^2g^2l^2 + 9a^2b^3c^3d^2ef^2g^2l^2 + 9a^2b^2c^4ef^2f^2g^2j^2 + 9a^2b^2c^4d^2f^2h^2j^2 - 9a^2b^2c^4d^2ef^2h^2k^2 - 36a^2b^2c^4d^2ef^2l^2 - 9a^2b^2c^4d^2f^2g^2j^2 - 12a^6b^2c^2h^2k^2l^3m + 3a^2b^6c^2e^3k^2l^3m + 3a^2b^6c^2d^2ef^2l^3 - 12a^2b^2c^6d^2ef^3f^2h + 9a^5b^2c^2h^2k^2l^2m + 18a^5b^2c^2g^2k^2l^2m
\end{aligned}$$

$$\begin{aligned}
& c^4*d*e*f^2*m^2 - 51*a^3*b^3*c^2*d*e*f*m^3 - 27*a^3*b*c^4*d*e*g^2*l^2 + 9*a \\
& ^3*b*c^4*d*e*h^2*k^2 + 9*a^2*b*c^5*e^2*f*g^2*j + 9*a^2*b*c^5*d^2*f*h^2*j + \\
& 9*a^2*b*c^5*d^2*e*h^2*k + 9*a^2*b*c^5*d*e^2*g^2*l - 9*a*b^5*c^2*d*e*f^2*m^2 \\
& - 9*a*b^4*c^3*d^2*e*g*l^2 - 9*a*b^2*c^5*d^2*e^2*g*l - 9*a*b^2*c^5*d^2*e^2* \\
& f*m - 3*a^2*b^3*c^3*e*f*g*j^3 - 3*a^2*b^3*c^3*d*f*h*j^3 + 36*a^3*b^2*c^3*d* \\
& e*f*l^3 - 27*a^2*b*c^5*d^2*f*g*j^2 - 18*a^2*b^4*c^2*d*e*f*l^3 - 18*a^2*b*c^ \\
& 5*d*e^2*h^2*j + 9*a^2*b*c^5*d^2*e*h*j^2 + 9*a^2*b*c^5*d*f^2*g^2*j + 9*a*b^4 \\
& *c^3*d*e^2*f*l^2 + 9*a*b^3*c^4*d^2*f*g*j^2 - 9*a*b^2*c^5*d^2*f^2*g*j - 9*a* \\
& b^2*c^5*d^2*e*f^2*l + 3*a^2*b^2*c^4*d*e*h^3*j - 18*a^2*b*c^5*e^2*f*g*h^2 + \\
& 18*a^2*b*c^5*d^2*e*f*k^2 + 15*a^2*b^3*c^3*d*e*f*k^3 + 9*a^2*b*c^5*e*f^2*g^2 \\
& *h + 9*a^2*b*c^5*d*e^2*g*j^2 - 9*a*b^3*c^4*d^2*e*f*k^2 + 9*a*b^2*c^5*d^2*e* \\
& g^2*j - 9*a*b^2*c^5*d*e^2*f^2*k + 3*a^2*b^2*c^4*e*f*g*h^3 + 18*a^2*b*c^5*d* \\
& e*f^2*j^2 + 9*a^2*b*c^5*d*f^2*g*h^2 - 9*a*b^3*c^4*d*e*f^2*j^2 + 9*a*b^2*c^5 \\
& *d^2*f*g^2*h - 3*a^2*b^2*c^4*d*e*f*j^3 + 9*a^2*b*c^5*d*e*g^2*h^2 - 9*a*b^2* \\
& c^5*d^2*e*g*h^2 + 9*a*b^2*c^5*d*e^2*f*h^2 - 36*a^6*c^2*f*j*k*l*m^2 + 36*a^5 \\
& *c^3*f^2*j*k*l*m - 36*a^5*c^3*f*h^2*j*l*m + 36*a^5*c^3*e*h*j^2*l*m - 18*a^6 \\
& *b*c*j^2*k*l*m^2 + 9*a^6*b*c*j*k^2*l^2*m + 3*a^5*b^2*c*j^3*k*l*m - 36*a^5*c \\
& ^3*f*g*j*k^2*m - 36*a^5*c^3*e*f*k^2*l*m + 36*a^5*c^3*d*g*k^2*l*m - 36*a^4*c \\
& ^4*d^2*g*k*l*m - 36*a^5*c^3*e*h*j*k*l^2 - 36*a^5*c^3*e*f*j*l^2*m - 36*a^5*c \\
& ^3*d*f*k*l^2*m + 36*a^4*c^4*e^2*h*j*k*l + 36*a^4*c^4*e^2*f*j*l*m + 9*a^6*b* \\
& c*h*k^2*l*m^2 - 3*a^4*b^3*c*h^3*k*l*m - 36*a^5*c^3*e*g*h*l^2*m + 36*a^5*c^3 \\
& *e*f*j*k*m^2 - 36*a^5*c^3*d*g*j*k*m^2 + 36*a^5*c^3*d*f*j*l*m^2 - 36*a^5*c^3 \\
& *d*e*k*l*m^2 + 36*a^4*c^4*e^2*g*h*l*m - 36*a^4*c^4*e*f^2*j*k*m - 36*a^4*c^4 \\
& *d*f^2*j*l*m + 9*a^6*b*c*h*j*l^2*m^2 + 9*a^6*b*c*g*k*l^2*m^2 + 9*a^5*b^2*c* \\
& g*k^3*l*m + 3*a^3*b^4*c*g^3*k*l*m + 36*a^5*c^3*f*g*h*j*m^2 + 36*a^5*c^3*e*f \\
& *h*l*m^2 - 36*a^4*c^4*f^2*g*h*j*m - 36*a^4*c^4*e*f^2*h*l*m - 24*a^4*b*c^3*f \\
& ^3*k*l*m - 12*a^5*b*c^2*h*j^3*k*m - 12*a^5*b*c^2*g*j^3*l*m - 3*a^2*b^5*c*f^ \\
& 3*k*l*m - 36*a^4*c^4*e*g^2*h*k*l - 36*a^4*c^4*e*f*g^2*l*m + 12*a^5*b^2*c*e* \\
& k*l^3*m - 6*a^5*b^2*c*f*j*l^3*m + 3*a^5*b^2*c*h*j*k*l^3 + 48*a^3*b*c^4*d^3* \\
& k*l*m + 36*a^4*c^4*e*f*h^2*j*m + 36*a^4*c^4*d*g*h^2*k*l - 36*a^4*c^4*d*f*h^ \\
& 2*k*m - 36*a^4*c^4*d*e*j^2*k*l + 24*a^5*b*c^2*d*k^3*l*m + 21*a*b^5*c^2*d^3* \\
& k*l*m - 12*a^5*b*c^2*g*j*k^3*l - 9*a^4*b^3*c*d*k^3*l*m + 6*a^5*b*c^2*f*j*k^ \\
& 3*m + 3*a^5*b^2*c*g*h*l^3*m - 36*a^4*c^4*e*f*h*j^2*l - 12*a^5*b*c^2*g*h*k^3 \\
& *m - 3*a^5*b^2*c*e*j*k*m^3 - 3*a^5*b^2*c*d*j*l*m^3 - 36*a^4*c^4*d*g*h*j*k^2 \\
& - 36*a^4*c^4*d*f*g*k^2*l - 36*a^4*c^4*d*e*h*k^2*l - 36*a^4*c^4*d*e*g*k^2*m \\
& + 36*a^3*c^5*d^2*g*h*j*k + 36*a^3*c^5*d^2*f*g*k*l - 36*a^3*c^5*d^2*f*g*j*m \\
& + 36*a^3*c^5*d^2*e*h*k*l + 36*a^3*c^5*d^2*e*g*k*m - 36*a^3*c^5*d^2*e*f*l*m \\
& + 24*a^5*b^2*c*e*h*l*m^3 - 24*a^3*b*c^4*e^3*j*k*l - 12*a^5*b^2*c*f*h*k*m^3 \\
& - 12*a^5*b^2*c*f*g*l*m^3 - 3*a^5*b^2*c*g*h*j*m^3 - 3*a^4*b^3*c*e*j*k*l^3 - \\
& 3*a*b^5*c^2*e^3*j*k*l + 36*a^4*c^4*d*e*h*j*l^2 + 36*a^4*c^4*d*e*g*k*l^2 - \\
& 36*a^3*c^5*d*e^2*h*j*l - 36*a^3*c^5*d*e^2*g*k*l - 36*a^3*c^5*d*e^2*f*k*m + \\
& 24*a^4*b*c^3*e*h^3*k*m - 24*a^3*b*c^4*e^3*g*l*m - 18*a*b^4*c^3*d^3*j*k*l - \\
& 12*a^4*b*c^3*g*h^3*j*l - 12*a^4*b*c^3*f*h^3*k*l - 12*a^4*b*c^3*d*h^3*l*m + \\
& 12*a^3*b*c^4*e^3*h*k*m + 6*a^4*b*c^3*f*h^3*j*m - 3*a^4*b^3*c*g*h*j*l^3 - 3* \\
& a^4*b^3*c*f*h*k*l^3 - 3*a^4*b^3*c*e*g*l^3*m - 3*a^4*b^3*c*d*h*l^3*m - 3*a*b
\end{aligned}$$

$$\begin{aligned}
& ^5c^2e^3h^*k^*m - 3a^*b^5c^2e^3g^*l^*m + 36a^4c^4e^*f^*g^*h^*l^2 - 36a^4c^4d^*e^*f^*j^*m^2 - 36a^3c^5e^2f^*g^*h^*l - 36a^3c^5d^*f^2g^*j^*k - 36a^3c^5d^*e^*f^2k^*l + 36a^3c^5d^*e^*f^2j^*m - 18a^*b^4c^3d^3h^*k^*m - 9a^*b^4c^3d^3g^*l^*m + 30a^5b^*c^2d^*g^*k^*m^3 - 30a^4b^3c^*d^*g^*k^*m^3 - 24a^5b^*c^2e^*f^*k^*m^3 - 24a^5b^*c^2d^*f^*l^*m^3 + 24a^4b^*c^3e^*g^*j^3m + 24a^4b^*c^3d^*h^*j^3m + 15a^4b^3c^*e^*f^*k^*m^3 + 15a^4b^3c^*d^*f^*l^*m^3 + 12a^5b^*c^2e^*g^*j^*m^3 + 12a^5b^*c^2d^*h^*j^*m^3 - 12a^4b^*c^3f^*h^*j^3k - 12a^4b^*c^3f^*g^*j^3l + 6a^4b^3c^*e^*g^*j^*m^3 + 6a^4b^3c^*d^*h^*j^*m^3 + 6a^4b^*c^3e^*h^*j^3l + 36a^3c^5d^*e^*g^2h^*l - 24a^5b^*c^2f^*g^*h^*m^3 + 15a^4b^3c^*f^*g^*h^*m^3 - 9a^*b^6c^d^2g^*j^*m^2 - 6a^3b^4c^*d^*g^*k^*l^3 - 6a^*b^4c^3e^3f^*j^*m + 3a^3b^4c^*e^*g^*j^*l^3 + 3a^3b^4c^*e^*f^*k^*l^3 + 3a^3b^4c^*d^*h^*j^*l^3 + 3a^3b^4c^*d^*e^*l^3m + 3a^*b^4c^3e^3h^*j^*k + 3a^*b^4c^3e^3g^*j^*l + 3a^*b^4c^3e^3f^*k^*l + 3a^*b^4c^3d^*e^3l^*m - 36a^3c^5d^*e^*g^*h^2k + 30a^2b^*c^5d^3f^*j^*m - 30a^*b^3c^4d^3f^*j^*m + 24a^3b^*c^4d^*g^3j^*l - 24a^2b^*c^5d^3h^*j^*k - 24a^2b^*c^5d^3f^*k^*l - 24a^2b^*c^5d^3e^*k^*m + 15a^*b^3c^4d^3h^*j^*k + 15a^*b^3c^4d^3f^*k^*l + 15a^*b^3c^4d^3e^*k^*m - 12a^3b^*c^4e^*g^3j^*k + 12a^2b^*c^5d^3g^*j^*l + 6a^*b^3c^4d^3g^*j^*l + 3a^3b^4c^*f^*g^*h^*l^3 + 3a^*b^4c^3e^3g^*h^*m + 24a^3b^*c^4d^*g^3h^*m - 12a^3b^*c^4f^*g^3h^*k + 12a^2b^*c^5d^3g^*h^*m - 9a^3b^4c^*d^*e^*j^*m^3 + 6a^3b^*c^4e^*g^3h^*l + 6a^*b^3c^4d^3g^*h^*m + 36a^3c^5d^*e^*f^*g^*k^2 - 36a^2c^6d^2e^*f^*g^*k - 24a^4b^*c^3d^*e^*j^*l^3 - 18a^3b^4c^*e^*f^*g^*m^3 - 18a^3b^4c^*d^*f^*h^*m^3 - 3a^2b^5c^*d^*e^*j^*l^3 - 3a^*b^3c^4d^*e^3j^*l - 24a^4b^*c^3e^*f^*g^*l^3 + 24a^3b^*c^4d^*f^*h^3l + 12a^4b^*c^3d^*f^*h^*l^3 - 12a^3b^*c^4e^*g^*h^3j - 12a^3b^*c^4e^*f^*h^3k - 12a^3b^*c^4d^*e^*h^3m - 12a^*b^2c^5d^3e^*j^*k + 6a^3b^*c^4d^*g^*h^3k - 3a^2b^5c^*e^*f^*g^*l^3 - 3a^2b^5c^*d^*f^*h^*l^3 - 3a^*b^3c^4e^3g^*h^*j - 3a^*b^3c^4e^3f^*h^*k - 3a^*b^3c^4e^3f^*g^*l - 3a^*b^3c^4d^*e^3h^*m + 24a^*b^2c^5d^3e^*h^*l - 12a^*b^2c^5d^3f^*h^*k - 3a^*b^2c^5d^3g^*h^*j - 3a^*b^2c^5d^3f^*g^*l - 3a^*b^2c^5d^3e^*g^*m + 48a^4b^*c^3d^*e^*f^*m^3 + 24a^2b^*c^5d^*e^*f^3m + 21a^2b^5c^*d^*e^*f^*m^3 - 12a^2b^*c^5e^*f^3g^*j - 12a^2b^*c^5d^*f^3h^*j - 9a^*b^3c^4d^*e^*f^3m + 6a^2b^*c^5d^*f^3g^*k + 12a^*b^2c^5d^*e^3f^*l - 6a^*b^2c^5d^*e^3g^*k + 3a^*b^2c^5d^*e^3h^*j - 24a^3b^*c^4d^*e^*f^*k^3 - 12a^2b^*c^5d^*e^*g^3j - 3a^*b^5c^2d^*e^*f^*k^3 + 3a^*b^2c^5e^3f^*g^*h - 12a^2b^*c^5d^*f^*g^3h + 9a^*b^2c^5d^*e^*f^3j + 9a^*b^*c^6d^2e^2f^*j + 3a^*b^4c^3d^*e^*f^*j^3 + 9a^*b^*c^6d^2e^2g^*h + 9a^*b^*c^6d^2e^2f^2h - 3a^*b^3c^4d^*e^*f^*h^3 - 18a^*b^*c^6d^2e^*f^*g^2 + 9a^*b^*c^6d^2e^2f^2g + 3a^*b^2c^5d^*e^*f^*g^3 - 36a^4b^2c^2e^2k^*l^2m - 9a^4b^2c^2g^2j^2k^*m + 45a^3b^3c^2d^2k^2l^*m + 36a^4b^2c^2e^2j^*l^*m^2 + 9a^4b^2c^2g^2j^*k^2l + 9a^3b^3c^2e^2j^2l^*m + 9a^4b^2c^2g^2h^*k^2m - 9a^4b^2c^2f^2h^*l^2m - 9a^3b^3c^2f^2j^2k^*l - 45a^3b^3c^2d^2j^*k^*m^2 + 36a^3b^2c^3d^2j^2k^*m + 18a^4b^2c^2f^2h^*k^*m^2 + 18a^4b^2c^2f^2g^*l^*m^2 - 9a^4b^2c^2g^2h^*k^*l^2 - 9a^4b^2c^2f^*h^2k^2m - 9a^4b^2c^2f^*g^2l^2m - 9a^4b^2c^2e^*j^2k^2l - 9a^4b^2c^2d^*j^2k^2m - 9a^3b^3c^2e^2j^*k^*l^2 - 9a^2b^4c^2d^2j^2k^*m - 36a^3b^2c^3d^2j^*k^2l - 27a^3b^2c^3e^2h^2k^*m + 9a^4b^2c^2g^*h^2j^*l^2 + 9a^4b^2c^2f^*h^2k^*l^2
\end{aligned}$$

$$\begin{aligned}
& - 9a^4b^2c^2fg^2k^2m^2 - 9a^4b^2c^2eg^2l^2m^2 - 9a^4b^2c^2d^2j^2k^2l^2 + 9a^4b^2c^2d^2h^2l^2m - 9a^3b^3c^2e^2g^2l^2m + 9a^2b^4c^2e^2h^2k^2m + 9a^2b^4c^2d^2j^2k^2l - 45a^3b^3c^2e^2h^2j^2m^2 \\
& + 36a^4b^2c^2e^2h^2j^2m^2 + 36a^3b^2c^3e^2h^2j^2m - 36a^3b^2c^3d^2h^2k^2m + 36a^2b^3c^3d^2g^2l^2m - 9a^4b^2c^2f^2h^2j^2l^2 - 9a^4b^2c^2d^2h^2k^2m + 9a^3b^3c^2f^2h^2j^2l^2 + 9a^3b^3c^2e^2f^2l^2m \\
& + 9a^3b^3c^2e^2h^2j^2m - 9a^3b^2c^3f^2h^2j^2l - 9a^2b^4c^2e^2h^2j^2m + 9a^2b^4c^2d^2h^2k^2m + 36a^3b^2c^3d^2h^2k^2l^2 - 27a^4b^2c^2e^2g^2j^2m^2 - 27a^4b^2c^2d^2h^2k^2l^2 \\
& * l^2 - 9a^3b^3c^2e^2f^2k^2m^2 - 9a^3b^3c^2d^2f^2l^2m^2 + 9a^3b^2c^3f^2h^2j^2k + 9a^3b^2c^3f^2g^2j^2l - 9a^3b^2c^3e^2g^2k^2l - 9a^3b^2c^3e^2f^2k^2m - 9a^3b^2c^3d^2f^2l^2m - 9a^2b^4c^2d^2h^2k^2l^2 \\
& + 9a^2b^3c^3d^2h^2k^2l - 81a^3b^2c^3d^2g^2j^2m^2 + 54a^2b^4c^2d^2g^2j^2m^2 - 45a^3b^3c^2d^2g^2j^2m^2 - 45a^2b^3c^3d^2g^2j^2m + 36a^3b^2c^3d^2f^2k^2m^2 + 36a^3b^2c^3d^2g^2j^2m + 18a^3b^2c^3e^2g^2j^2l^2 + 18a^3b^2c^3e^2f^2k^2l^2 + 18a^3b^2c^3d^2e^2l^2m - 9a^4b^2c^2d^2f^2k^2m^2 - 9a^3b^3c^2f^2g^2h^2m^2 - 9a^3b^3c^2d^2h^2j^2l^2 - 9a^3b^2c^3f^2g^2j^2k^2 - 9a^3b^2c^3d^2e^2l^2m^2 - 9a^3b^2c^3f^2g^2h^2m - 9a^3b^2c^3e^2g^2j^2l - 9a^3b^2c^3e^2f^2k^2l - 9a^2b^4c^2d^2f^2k^2m^2 - 9a^2b^4c^2d^2g^2j^2m - 9a^2b^3c^3e^2h^2j^2k - 9a^2b^2c^4d^2f^2k^2m - 27a^2b^2c^4d^2g^2j^2l - 9a^3b^3c^2f^2g^2h^2l^2 + 9a^3b^2c^3e^2g^2j^2k^2 - 9a^3b^2c^3e^2f^2j^2l^2 - 9a^3b^2c^3d^2h^2j^2k - 9a^3b^2c^3d^2f^2k^2l^2 - 9a^3b^2c^3d^2e^2k^2m^2 - 9a^2b^3c^3e^2g^2h^2m - 9a^2b^3c^3d^2h^2j^2k^2 - 9a^2b^3c^3d^2f^2k^2l - 9a^2b^3c^3d^2e^2k^2m + 36a^3b^3c^2d^2e^2j^2m^2 + 36a^3b^2c^3e^2f^2h^2m^2 - 27a^2b^2c^4d^2g^2h^2m + 9a^3b^3c^2e^2f^2h^2m^2 + 9a^3b^2c^3f^2g^2h^2k^2 - 9a^2b^4c^2e^2f^2h^2m^2 + 9a^2b^3c^3d^2e^2k^2l^2 - 9a^2b^2c^4e^2f^2h^2m - 45a^2b^3c^3d^2g^2h^2l^2 - 36a^3b^2c^3e^2f^2g^2m^2 + 36a^3b^2c^3d^2g^2h^2l^2 - 36a^3b^2c^3d^2f^2h^2m^2 + 36a^2b^2c^4d^2g^2h^2l - 9a^3b^2c^3e^2g^2h^2k^2 + 9a^2b^4c^2e^2f^2g^2m^2 - 9a^2b^4c^2d^2g^2h^2l^2 + 9a^2b^4c^2d^2f^2h^2m^2 + 9a^2b^3c^3e^2g^2h^2k^2 + 9a^2b^3c^3d^2g^2h^2l - 9a^2b^3c^3d^2e^2j^2l^2 - 9a^2b^2c^4e^2g^2h^2k - 9a^2b^2c^4e^2f^2g^2m - 9a^2b^2c^4d^2f^2j^2k - 9a^2b^2c^4d^2f^2h^2m - 9a^2b^2c^4d^2e^2j^2l - 45a^2b^3c^3d^2f^2g^2m^2 + 36a^3b^2c^3d^2f^2g^2m^2 - 27a^3b^2c^3d^2f^2h^2l^2 + 18a^2b^2c^4d^2e^2j^2k^2 + 9a^2b^4c^2d^2f^2h^2l^2 - 9a^2b^4c^2d^2f^2g^2m^2 - 9a^2b^3c^3e^2f^2g^2l^2 + 9a^2b^2c^4e^2g^2h^2j + 9a^2b^2c^4e^2f^2h^2k - 9a^2b^2c^4e^2f^2g^2l - 9a^2b^2c^4d^2f^2g^2m - 9a^2b^2c^4d^2e^2j^2k + 9a^2b^2c^4d^2e^2h^2m + 18a^4b^2c^2f^2j^2m^2 + 18a^3b^2c^3e^2h^2l^2 - 9a^2b^4c^2e^2h^2l^2 + 18a^2b^2c^4d^2g^2k^2 + 12a^6c^2j^3k^2l^2m + 3a^6b^2j^2k^2l^2m^3 - 12a^6c^2g^2k^3l^2m - 12a^5c^3g^2k^2l^2m - 24a^6c^2e^2k^2l^3m - 24a^4c^4e^2k^2l^2m + 12a^6c^2h^2j^2k^2l^3 + 12a^6c^2f^2j^2l^3m + 12a^5c^3h^3j^2k^2l - 3a^5b^3h^2j^2k^2m^3 - 3a^5b^3g^2j^2l^2m^3 - 3a^5b^3f^2k^2l^2m^3 + 12a^6c^2g^2h^2l^3m + 12a^5c^3g^2h^2l^3m - 12a^6c^2e^2j^2k^2m^3 - 12
\end{aligned}$$

$$\begin{aligned}
& a^6c^2d^*j^*l^*m^3 - 12a^5c^3f^*j^3k^*l - 12a^5c^3e^*j^3k^*m - 12a^5c^3d^*j^3l^*m - 12a^4c^4f^3j^*k^*l + 24a^6c^2f^*h^*k^*m^3 + 24a^6c^2f^*g^*l^*m^3 + 24a^4c^4f^3h^*k^*m + 24a^4c^4f^3g^*l^*m - 12a^6c^2g^*h^*j^*m^3 - 12a^6c^2e^*h^*l^*m^3 - 12a^5c^3g^*h^*j^3m + 3b^6c^2d^3j^*k^*l + 3a^4b^4e^*j^*k^*m^3 + 3a^4b^4d^*j^*l^*m^3 - 24a^5c^3d^*j^*k^3l - 24a^3c^5d^3j^*k^*l - 6a^4b^4e^*h^*l^*m^3 + 3b^6c^2d^3h^*k^*m + 3b^6c^2d^3g^*l^*m + 3a^6b^*c^*j^2l^3m + 3a^4b^4g^*h^*j^*m^3 + 3a^4b^4f^*h^*k^*m^3 + 3a^4b^4f^*g^*l^*m^3 - 24a^5c^3d^*h^*k^3m - 24a^3c^5d^3h^*k^*m + 12a^5c^3g^*h^*j^*k^3 + 12a^5c^3f^*g^*k^3l + 12a^5c^3e^*h^*k^3l + 12a^5c^3e^*g^*k^3m + 12a^4c^4g^3h^*j^*k + 12a^4c^4f^*g^3k^*l + 12a^4c^4f^*g^3j^*m + 12a^4c^4e^*g^3k^*m + 12a^4c^4d^*g^3l^*m + 12a^3c^5d^3g^*l^*m + 3a^6b^*c^*j^*k^3m^2 - 9a^6b^*c^*h^2l^*m^3 - 3a^5b^*c^2j^4k^*l + 24a^5c^3e^*g^*j^*l^3 + 24a^5c^3e^*f^*k^*l^3 + 24a^5c^3d^*e^*l^3m + 24a^3c^5e^3g^*j^*l + 24a^3c^5e^3f^*k^*l + 24a^3c^5d^*e^3l^*m - 12a^5c^3d^*h^*j^*l^3 - 12a^5c^3d^*g^*k^*l^3 - 12a^4c^4e^*h^3j^*k - 12a^4c^4d^*h^3j^*l - 12a^3c^5e^3h^*j^*k - 12a^3c^5e^3f^*j^*m + 9a^4b^*c^3g^4l^*m + 6b^5c^3d^3f^*j^*m + 6a^3b^5d^*g^*k^*m^3 - 3b^5c^3d^3h^*j^*k - 3b^5c^3d^3g^*j^*l - 3b^5c^3d^3f^*k^*l - 3b^5c^3d^3e^*k^*m - 3a^3b^5e^*g^*j^*m^3 - 3a^3b^5e^*f^*k^*m^3 - 3a^3b^5d^*h^*j^*m^3 - 3a^3b^5d^*f^*l^*m^3 - 12a^5c^3f^*g^*h^*l^3 - 12a^4c^4f^*g^*h^3l - 12a^4c^4e^*g^*h^3m - 12a^3c^5e^3g^*h^*m - 9a^6b^*c^*g^*k^2m^3 - 3b^5c^3d^3g^*h^*m + 3a^6b^*c^*f^*l^3m^2 - 3a^3b^5f^*g^*h^*m^3 + 12a^5c^3d^*e^*j^*m^3 + 12a^4c^4e^*f^*j^3k + 12a^4c^4d^*g^*j^3k + 12a^4c^4d^*f^*j^3l + 12a^4c^4d^*e^*j^3m + 12a^3c^5e^*f^3j^*k + 12a^3c^5d^*f^3j^*l - 9a^6b^*c^*e^*l^2m^3 - 24a^5c^3e^*f^*g^*m^3 - 24a^5c^3d^*f^*h^*m^3 - 24a^3c^5e^*f^3g^*m - 24a^3c^5d^*f^3h^*m - 15a^2b^*c^5d^4l^*m + 15a^*b^3c^4d^4l^*m + 12a^4c^4f^*g^*h^*j^3 + 12a^3c^5f^3g^*h^*j + 12a^3c^5e^*f^3h^*l + 9a^3b^*c^4f^4k^*l - 9a^3b^*c^4f^4j^*m + 3b^4c^4d^3e^*j^*k + 3a^5b^2c^*g^*j^*l^4 + 3a^5b^2c^*f^*k^*l^4 + 3a^5b^2c^*d^*l^4m - 3a^5b^*c^2h^*j^*k^4 - 3a^5b^*c^2f^*k^4l - 3a^5b^*c^2e^*k^4m - 3a^4b^*c^3h^4j^*k + 3a^2b^6d^*e^*j^*m^3 + 3a^*b^4c^3e^4k^*m + 24a^4c^4d^*e^*j^*k^3 + 24a^2c^6d^3e^*j^*k - 6b^4c^4d^3e^*h^*l + 3b^4c^4d^3g^*h^*j + 3b^4c^4d^3f^*h^*k + 3b^4c^4d^3f^*g^*l + 3b^4c^4d^3e^*g^*m - 3a^4b^*c^3g^*h^4m + 3a^2b^6e^*f^*g^*m^3 + 3a^2b^6d^*f^*h^*m^3 - 3a^*b^6c^*e^3j^*m^2 + 24a^4c^4d^*f^*h^*k^3 + 24a^2c^6d^3f^*h^*k - 12a^4c^4e^*f^*g^*k^3 - 12a^3c^5e^*f^*g^3k - 12a^3c^5d^*g^3h^*j - 12a^3c^5d^*f^*g^3l - 12a^3c^5d^*e^*g^3m - 12a^2c^6d^3g^*h^*j - 12a^2c^6d^3f^*g^*l - 12a^2c^6d^3e^*h^*l - 12a^2c^6d^3e^*g^*m - 12a^*b^2c^5d^4j^*l + 9a^5b^*c^2d^*j^*l^4 + 9a^2b^*c^5e^4j^*k - 3a^4b^3c^*d^*j^*l^4 - 3a^4b^*c^3e^*j^4k - 3a^4b^*c^3d^*j^4l - 3a^*b^3c^4e^4j^*k - 24a^4c^4d^*e^*f^*l^3 - 24a^2c^6d^*e^3f^*l - 12a^5b^2c^*e^*g^*m^4 - 12a^5b^2c^*d^*h^*m^4 + 12a^3c^5d^*e^*h^3j + 12a^2c^6d^*e^3h^*j + 12a^2c^6d^*e^3g^*k - 12a^*b^2c^5d^4h^*m + 9a^5b^*c^2f^*g^*l^4 - 9a^5b^*c^2e^*h^*l^4 - 9a^2b^*c^5e^4h^*l + 9a^2b^*c^5e^4g^*m + 6a^4b^3c^*e^*h^*l^4 + 6a^*b^3c^4e^4h^*l - 3b^3c^5d^3e^*g^*j - 3b^3c^5d^3e^*f^*k - 3a^4b^3c^*f^*g^*l^4 - 3a^4b^*c^3g^*h^*j^4 - 3a^3b^*c^4g^4h^*j - 3a^3b^*c^4f^*g^4l - 3a^3b^*c^4e^*g^4m - 3a^*b^3c^4e^4g^*m
\end{aligned}$$

$$\begin{aligned}
& 5c^3fh^2j^2l^2 - 18a^5c^3e^2h^2jm^2 + 18a^5c^3d^2h^2k^2m^2 + 18a^4c^4f^2h^2j^2l^2 - 18a^4c^4e^2h^2jm^2 - 18a^5c^3e^2g^2k^2l^2 + 18a^5c^3d^2h^2k^2l^2 + 18a^4c^4e^2g^2k^2l^2 + 18a^4c^4e^2f^2k^2m^2 - 18a^4c^4d^2h^2k^2l^2 + 18a^4c^4d^2f^2l^2m^2 - 36a^4c^4e^2g^2j^2l^2 - 36a^4c^4e^2f^2k^2l^2 - 36a^4c^4d^2e^2l^2m^2 + 18a^5c^3d^2f^2k^2m^2 + 18a^4c^4f^2g^2jk^2 + 18a^4c^4d^2g^2jm^2 - 18a^4c^4d^2f^2k^2m^2 + 18a^4c^4d^2e^2l^2m^2 - 18a^4c^4f^2g^2j^2k + 18a^4c^4f^2g^2h^2m + 18a^4c^4e^2g^2j^2l + 18a^4c^4e^2f^2k^2l - 18a^4c^4d^2g^2j^2m - 18a^4c^4d^2f^2k^2m + 18a^3c^5d^2f^2k^2m + 3a^4b^2c^2h^4k^2m - 3a^3b^3c^2g^4l^2m + 18a^4c^4e^2f^2j^2l^2 + 18a^4c^4d^2h^2j^2k + 18a^4c^4d^2f^2k^2l^2 + 18a^4c^4d^2e^2k^2m^2 - 18a^3c^5e^2f^2j^2l + 12a^5b^2c^2g^2k^2m^3 - 9a^5b^2c^2h^3j^2m^2 - 9a^5b^2c^2f^2l^3m + 3a^5b^2c^2h^2k^3l + 3a^4b^3c^2h^3j^2m^2 + 3a^4b^3c^2f^2l^3m - 18a^4c^4e^2f^2h^2m^2 + 18a^3c^5e^2f^2h^2m + 15a^5b^2c^2e^2l^2m^3 - 15a^4b^3c^2e^2l^2m^3 - 9a^5b^2c^2g^2k^2l^3 - 9a^4b^3c^3g^3j^2m - 3a^5b^2c^2g^2k^2l^3 + 3a^5b^2c^2h^2j^3l^2 + 3a^4b^3c^2g^2k^2l^3 - 3a^3b^4c^2g^3j^2m^2 + 36a^4c^4e^2f^2g^2m^2 + 36a^4c^4d^2f^2h^2m^2 + 18a^4c^4e^2g^2h^2k^2 - 18a^4c^4d^2g^2h^2l^2 - 18a^4c^4d^2f^2j^2k^2 + 18a^3c^5e^2g^2h^2k + 18a^3c^5e^2f^2g^2m - 18a^3c^5d^2g^2h^2l + 18a^3c^5d^2f^2j^2k + 18a^3c^5d^2f^2h^2m + 18a^3c^5d^2e^2j^2l - 12a^2b^2c^4e^4k^2m + 9a^4b^3c^2f^2j^3m^2 - 9a^4b^2c^2f^2j^4m - 6a^5b^2c^2f^2j^2m^3 + 6a^5b^2c^2f^2j^2m^3 - 6a^5b^2c^2f^2j^3m^2 - 6a^4b^3c^2f^2j^2m^3 + 6a^4b^3c^3f^3j^2m^2 - 6a^4b^3c^3f^2j^3m + 6a^2b^3c^3f^4j^2m + 3a^3b^2c^3g^4j^2l + 3a^2b^5c^2f^3j^2m^2 - 3a^2b^3c^3f^4k^2l - 36a^3c^5d^2e^2j^2k^2 - 18a^4c^4d^2f^2g^2m^2 + 18a^3c^5e^2f^2g^2l + 18a^3c^5d^2f^2g^2m + 18a^3c^5d^2e^2j^2k + 18a^3b^4c^2d^2k^2m^3 + 15a^3b^4c^2e^3j^2m + 12a^5b^2c^2d^2k^2m^3 - 9a^5b^2c^2f^2j^2l^3 - 9a^4b^3c^3e^2k^3l + 3a^5b^2c^2e^2k^3l^2 + 3a^4b^3c^2f^2j^2l^3 + 3a^4b^3c^3g^2j^3k - 3a^3b^4c^2f^2j^2l^3 + 3a^3b^2c^3g^4h^2m + 3a^2b^5c^2e^3j^2m - 36a^3c^5d^2f^2h^2k^2 - 21a^3b^4c^2d^3j^2m^2 - 21a^2b^5c^2d^3j^2m^2 + 18a^3c^5e^2f^2h^2j^2 - 18a^3c^5e^2f^2h^2j + 18a^3c^5d^2f^2h^2k + 18a^2b^4c^3d^3j^2m + 15a^4b^3c^3d^2k^2l^3 - 9a^5b^2c^2d^2k^2l^3 - 9a^4b^3c^3g^3h^2l^2 - 9a^4b^3c^3f^2j^2k^3 + 3a^4b^3c^2d^2k^2l^3 + 3a^2b^5c^2d^2k^2l^3 - 18a^3c^5d^2e^2g^2l^2 + 18a^3c^5d^2e^2h^2k^2 + 18a^3b^4c^2e^2h^2m^3 - 18a^2c^6d^2e^2h^2k + 18a^2c^6d^2e^2g^2l + 18a^2c^6d^2e^2f^2m + 15a^5b^2c^2e^2h^2m^3 - 15a^4b^3c^2e^2h^2m^3 - 9a^4b^3c^3f^2g^3m^2 - 9a^3b^4c^2f^3h^2l + 3a^4b^2c^2e^2j^2k^4 + 3a^4b^3c^3g^2h^3k^2 + 3a^3b^4c^2f^2g^3m + 36a^3c^5d^2e^2f^2l^2 + 18a^3c^5d^2f^2g^2j^2 + 18a^2c^6d^2f^2g^2j + 18a^2c^6d^2e^2f^2l - 9a^3b^2c^3e^2h^4l - 9a^3b^4c^2d^2j^3k + 6a^4b^3c^3e^2h^2l^3 - 6a^4b^3c^3e^2h^3l^2 + 6a^3b^4c^2e^3h^2l^2 - 6a^3b^4c^2e^2h^3l + 3a^4b^2c^2f^2h^2k^4 + 3a^4b^3c^3d^2j^3k^2 - 3a^3b^4c^2e^2h^2l^3 + 3a^2b^5c^2e^2h^2l^3 + 3a^2b^2c^4f^4h^2k + 3a^2b^2c^4f^4g^2l + 3a^2b^5c^2e^3h^2l^2 - 3a^2b^4c^3e^3h^2l - 21a^4b^3c^3d^2g^2m^3 - 21a^2b^5c^2d^2g^2m^3 + 18a^3b^4c^2d^2g^2m^3 + 18a^2c^6d^2e^2f^2k + 18a^2b^4c^3
\end{aligned}$$

$$\begin{aligned}
& *d^3*h^1^2 + 15*a^3*b*c^4*e^3*f*m^2 + 15*a^2*b*c^5*d^3*h^2*1 - 15*a*b^3*c^4 \\
& *d^3*h^2*1 - 9*a^4*b*c^3*e*h^2*k^3 - 9*a^3*b*c^4*f^3*g*k^2 - 9*a^2*b*c^5*e^3 \\
& *f^2*m + 3*a^3*b*c^4*f^2*h^3*j + 3*a*b^5*c^2*e^3*f*m^2 + 3*a*b^3*c^4*e^3*f \\
& ^2*m + 18*a*b^4*c^3*d^3*f*m^2 + 15*a^4*b*c^3*d*g^2*1^3 + 12*a*b^2*c^5*d^3*f \\
& ^2*m - 9*a^3*b*c^4*e^2*h*j^3 - 9*a^3*b*c^4*e*f^3*1^2 - 9*a^2*b*c^5*e^3*g^2* \\
& k + 3*a^3*b*c^4*f*g^3*j^2 + 3*a^2*b^5*c*d*g^2*1^3 + 3*a^2*b*c^5*e^2*f^3*1 - \\
& 3*a*b^4*c^3*e^3*g*k^2 + 3*a*b^3*c^4*e^3*g^2*k + 18*a^2*c^6*d^2*e*g*h^2 - 1 \\
& 8*a^2*c^6*d*e^2*g^2*h - 12*a^4*b^2*c^2*d*f*1^4 - 9*a^2*b^2*c^4*d*g^4*k + 9* \\
& a*b^3*c^4*d^2*g^3*k + 6*a^3*b^3*c^2*d*g*k^4 + 6*a^3*b*c^4*d^2*g*k^3 - 6*a^3 \\
& *b*c^4*d*g^3*k^2 + 6*a^2*b*c^5*d^3*g*k^2 - 6*a^2*b*c^5*d^2*g^3*k - 6*a*b^3* \\
& c^4*d^3*g*k^2 - 6*a*b^2*c^5*d^3*g^2*k - 3*a^3*b^3*c^2*e*f*k^4 + 3*a^3*b^2*c \\
& ^3*e*g*j^4 + 3*a^3*b^2*c^3*d*h*j^4 + 3*a*b^5*c^2*d^2*g*k^3 + 15*a^2*b*c^5*d \\
& ^3*e*1^2 - 15*a*b^3*c^4*d^3*e*1^2 - 9*a^3*b*c^4*d*g^2*j^3 - 9*a^2*b*c^5*e^3 \\
& *f*j^2 - 3*a*b^4*c^3*d^2*g*j^3 + 3*a*b^3*c^4*e^3*f*j^2 - 3*a*b^2*c^5*e^3*f^ \\
& 2*j + 12*a*b^2*c^5*d^3*f*j^2 - 9*a^2*b*c^5*d*e^3*k^2 + 3*a^2*b*c^5*e^2*g^3* \\
& h + 3*a*b^3*c^4*d*e^3*k^2 - 9*a^2*b*c^5*d^2*g*h^3 - 3*a^2*b^3*c^3*d*e*j^4 + \\
& 3*a^2*b*c^5*e*f^3*h^2 + 3*a*b^3*c^4*d^2*g*h^3 + 3*a^2*b^2*c^4*d*f*h^4 - 9* \\
& a^7*c*k^2*1^2*m^2 - 6*a^6*c^2*j^2*k^3*m - 3*a^6*b^2*h*1^2*m^3 + 3*a^5*b^3*h \\
& ^2*1*m^3 - 6*a^6*c^2*g^2*k*m^3 - 6*a^6*c^2*h*k^3*1^2 + 6*a^5*c^3*h^3*j^2*m \\
& + 6*a^6*c^2*g*k^2*1^3 - 6*a^6*c^2*f*k^3*m^2 - 6*a^5*c^3*h^2*j^3*1 - 6*a^5*c \\
& ^3*g^3*j*m^2 + 6*a^5*c^3*f^2*k^3*m + 3*a^5*b^3*g*k^2*m^3 - 3*a^4*b^4*g^2*k* \\
& m^3 + 12*a^6*c^2*f*j^2*m^3 + 12*a^4*c^4*f^3*j^2*m + 3*a^5*b^3*e*1^2*m^3 + 3 \\
& *a^3*b^5*e^2*1*m^3 - 6*a^6*c^2*d*k^2*m^3 - 6*a^5*c^3*f^2*j*1^3 + 6*a^5*c^3* \\
& d^2*k*m^3 - 6*a^5*c^3*g*j^3*k^2 + 6*a^4*c^4*e^3*j*m^2 - 3*b^6*c^2*d^3*j^2*m \\
& - 3*a^4*b^4*f*j^2*m^3 + 3*a^3*b^5*f^2*j*m^3 + 6*a^5*c^3*f*j^2*k^3 + 6*a^5* \\
& c^3*f*h^3*m^2 - 6*a^5*c^3*e*j^3*1^2 + 6*a^4*c^4*g^3*h^2*1 - 6*a^4*c^4*f^2*h \\
& ^3*m + 6*a^4*c^4*e^2*j^3*1 + 6*a^3*c^5*d^3*j^2*m - 3*a^4*b^4*d*k^2*m^3 - 3* \\
& a^2*b^6*d^2*k*m^3 + 6*a^5*c^3*e^2*h*m^3 - 6*a^4*c^4*g^2*h^3*k - 6*a^4*c^4*f \\
& ^3*h*1^2 + 12*a^5*c^3*e*h^2*1^3 + 12*a^3*c^5*e^3*h^2*1 - 3*b^6*c^2*d^3*h*1^ \\
& 2 + 3*b^5*c^3*d^3*h^2*1 - 3*a^5*b^2*c*j^4*m^2 + 3*a^3*b^5*e*h^2*m^3 - 3*a^2 \\
& *b^6*e^2*h*m^3 + 6*a^5*c^3*d*g^2*m^3 - 6*a^4*c^4*e^2*h*k^3 - 6*a^4*c^4*f*h^ \\
& 3*j^2 + 6*a^4*c^4*e*g^3*1^2 + 6*a^3*c^5*f^3*g^2*k - 6*a^3*c^5*e^2*g^3*1 + 6 \\
& *a^3*c^5*d^3*h*1^2 - 3*b^6*c^2*d^3*f*m^2 - 3*b^4*c^4*d^3*f^2*m + 6*a^4*c^4* \\
& d^2*g*1^3 + 6*a^4*c^4*e*h^2*j^3 - 6*a^4*c^4*d*h^3*k^2 - 6*a^3*c^5*f^2*g^3*j \\
& - 6*a^3*c^5*e^3*g*k^2 + 6*a^3*c^5*d^3*f*m^2 + 6*a^3*c^5*d^2*h^3*k - 6*a^2* \\
& c^6*d^3*f^2*m + 4*a^5*b^2*c*h^3*m^3 + 3*b^5*c^3*d^3*g*k^2 - 3*b^4*c^4*d^3*g \\
& ^2*k - 3*a^2*b^6*d*g^2*m^3 + a^5*b*c^2*j^3*k^3 + 12*a^4*c^4*d*g^2*k^3 + 12* \\
& a^2*c^6*d^3*g^2*k + 6*a^5*b*c^2*h^3*1^3 + 5*a^5*b*c^2*g^3*m^3 - 5*a^4*b^3*c \\
& *g^3*m^3 + 3*b^5*c^3*d^3*e*1^2 + 3*b^3*c^5*d^3*e^2*1 - 3*a^5*b^2*c*h^2*1^4 \\
& + a^4*b^3*c*h^3*1^3 + 12*a^5*b^2*c*f^2*m^4 - 6*a^3*c^5*d^2*g*j^3 + 6*a^3*c^ \\
& 5*d*f^3*k^2 + 6*a^3*b^4*c*f^3*m^3 + 6*a^2*c^6*e^3*f^2*j - 6*a^2*c^6*d^2*f^3 \\
& *k - 3*b^4*c^4*d^3*f*j^2 + 3*b^3*c^5*d^3*f^2*j - 3*a^2*b^2*c^4*f^5*m - 7*a^ \\
& 4*b*c^3*e^3*m^3 - 7*a^2*b^5*c*e^3*m^3 + 6*a^4*b*c^3*g^3*k^3 - 6*a^3*c^5*e*g \\
& ^3*h^2 - 6*a^2*c^6*d^3*f*j^2 + 5*a^4*b*c^3*f^3*1^3 + a^4*b*c^3*h^3*j^3 + a^ \\
& 2*b^5*c*f^3*1^3 + 6*a^3*c^5*d*g^2*h^3 - 6*a^2*c^6*e^2*f^3*h - 3*a^3*b^4*c*e
\end{aligned}$$

$$\begin{aligned}
&^2*1^4 - 3*a*b^4*c^3*e^4*1^2 - 7*a^3*b*c^4*d^3*1^3 - 7*a*b^5*c^2*d^3*1^3 + \\
&6*a^3*b*c^4*f^3*j^3 + 5*a^3*b*c^4*e^3*k^3 + 3*b^3*c^5*d^3*e*h^2 - 3*b^2*c^6 \\
&*d^3*e^2*h + a*b^5*c^2*e^3*k^3 + 12*a*b^2*c^5*d^4*k^2 - 6*a^2*c^6*d*f^3*g^2 \\
&+ 6*a*b^4*c^3*d^3*k^3 - 3*a^4*b^2*c^2*d*k^5 + a^3*b*c^4*g^3*h^3 + 5*a^2*b* \\
&c^5*d^3*j^3 - 5*a*b^3*c^4*d^3*j^3 - 9*a*c^7*d^2*e^2*f^2 + 6*a^2*b*c^5*e^3*h \\
&^3 - 3*a*b^2*c^5*e^4*h^2 + a^2*b*c^5*f^3*g^3 + a*b^3*c^4*e^3*h^3 + 4*a*b^2* \\
&c^5*d^3*h^3 - 3*a*b^2*c^5*d^2*g^4 - 6*a^7*c*j*1^3*m^2 + 6*a^7*c*h*1^2*m^3 + \\
&6*a^6*c^2*j*k^4*1 + 6*a^6*c^2*h*k^4*m - 6*a^5*c^3*h^4*k*m + 3*a^6*b^2*h*k* \\
&m^4 + 3*a^6*b^2*g*1*m^4 - 3*b^5*c^3*d^4*1*m - 6*a^6*c^2*g*j*1^4 - 6*a^6*c^2 \\
&*f*k*1^4 - 6*a^6*c^2*d*1^4*m + 6*a^5*c^3*h*j^4*k + 6*a^5*c^3*g*j^4*1 + 6*a^ \\
&5*c^3*f*j^4*m - 6*a^4*c^4*g^4*j*1 + 6*a^3*c^5*e^4*k*m + 6*a^5*b^3*f*j*m^4 - \\
&6*a^4*c^4*g^4*h*m + 3*b^7*c*d^3*j*m^2 - 3*a^5*b^3*e*k*m^4 - 3*a^5*b^3*d*1* \\
&m^4 + 3*b^4*c^4*d^4*j*1 - 3*a^5*b^3*g*h*m^4 - 6*a^5*c^3*e*j*k^4 + 6*a^2*c^6 \\
&*d^4*j*1 + 3*b^4*c^4*d^4*h*m + 6*a^6*c^2*e*g*m^4 + 6*a^6*c^2*d*h*m^4 + 6*a^ \\
&6*b*c*j^3*m^3 - 6*a^5*c^3*f*h*k^4 + 6*a^4*c^4*g*h^4*j + 6*a^4*c^4*f*h^4*k + \\
&6*a^4*c^4*e*h^4*1 + 6*a^4*c^4*d*h^4*m - 6*a^3*c^5*f^4*h*k - 6*a^3*c^5*f^4* \\
&g*1 + 6*a^2*c^6*d^4*h*m + 3*a^5*b*c^2*j^5*m + a^6*b*c*k^3*1^3 + 3*a^4*b^4*e \\
&*g*m^4 + 3*a^4*b^4*d*h*m^4 + 6*b^3*c^5*d^4*g*k - 3*b^3*c^5*d^4*h*j - 3*b^3* \\
&c^5*d^4*f*1 - 3*b^3*c^5*d^4*e*m + 3*a*b^7*d^2*g*m^3 + 6*a^5*c^3*d*f*1^4 - 6 \\
&*a^4*c^4*e*g*j^4 - 6*a^4*c^4*d*h*j^4 + 6*a^3*c^5*e*g^4*j + 6*a^3*c^5*d*g^4* \\
&k - 6*a^2*c^6*e^4*g*j - 6*a^2*c^6*e^4*f*k - 6*a^2*c^6*d*e^4*m + 3*a^4*b*c^3 \\
&*h^5*1 + 6*a^3*c^5*f*g^4*h - 3*a^3*b^5*d*e*m^4 + 3*b^2*c^6*d^4*e*j + 3*a^5* \\
&b*c^2*g*k^5 + 3*a^3*b*c^4*g^5*k + 8*a*b^6*c*d^3*m^3 + 3*b^2*c^6*d^4*f*h - 3 \\
&*a^5*b^2*c*e*1^5 - 3*a*b^2*c^5*e^5*1 - 6*a^3*c^5*d*f*h^4 + 6*a^2*c^6*e*f^4* \\
&g + 6*a^2*c^6*d*f^4*h + 3*a^4*b*c^3*f*j^5 + 3*a^2*b*c^5*f^5*j + 6*a*c^7*d^3 \\
&*e^2*h - 6*a*c^7*d^2*e^3*g + 3*a^3*b*c^4*e*h^5 + 6*a*b*c^6*d^3*g^3 + 3*a^2* \\
&b*c^5*d*g^5 + a*b*c^6*e^3*f^3 - 9*a^6*c^2*j^2*k^2*1^2 - 9*a^6*c^2*h^2*k^2*m \\
&^2 - 9*a^6*c^2*g^2*1^2*m^2 - 18*a^5*c^3*f^2*j^2*m^2 - 9*a^5*c^3*h^2*j^2*k^2 \\
&- 9*a^5*c^3*g^2*j^2*1^2 - 9*a^5*c^3*f^2*k^2*1^2 - 9*a^5*c^3*e^2*k^2*m^2 - \\
&9*a^5*c^3*d^2*1^2*m^2 - 9*a^5*c^3*g^2*h^2*m^2 - 9*a^4*c^4*e^2*j^2*k^2 - 9*a \\
&^4*c^4*d^2*j^2*1^2 - 18*a^4*c^4*e^2*h^2*1^2 - 9*a^4*c^4*g^2*h^2*j^2 - 9*a^4 \\
&*c^4*f^2*h^2*k^2 - 9*a^4*c^4*f^2*g^2*1^2 - 9*a^4*c^4*e^2*g^2*m^2 - 9*a^4*c^ \\
&4*d^2*h^2*m^2 - 18*a^3*c^5*d^2*g^2*k^2 - 9*a^3*c^5*e^2*g^2*j^2 - 9*a^3*c^5* \\
&e^2*f^2*k^2 - 9*a^3*c^5*d^2*h^2*j^2 - 9*a^3*c^5*d^2*f^2*1^2 - 9*a^3*c^5*d^2 \\
&*e^2*m^2 - 3*a^4*b^2*c^2*h^4*1^2 - 18*a^4*b^2*c^2*f^3*m^3 + 12*a^3*b^2*c^3* \\
&f^4*m^2 - 9*a^3*c^5*f^2*g^2*h^2 + 4*a^4*b^2*c^2*g^3*1^3 - 3*a^2*b^4*c^2*f^4 \\
&*m^2 + 14*a^3*b^3*c^2*e^3*m^3 - 5*a^3*b^3*c^2*f^3*1^3 - 3*a^4*b^2*c^2*g^2*k \\
&^4 - 3*a^3*b^2*c^3*g^4*k^2 + a^3*b^3*c^2*g^3*k^3 - 20*a^2*b^4*c^2*d^3*m^3 - \\
&18*a^3*b^2*c^3*e^3*1^3 + 16*a^3*b^2*c^3*d^3*m^3 + 12*a^4*b^2*c^2*e^2*1^4 + \\
&12*a^2*b^2*c^4*e^4*1^2 - 9*a^2*c^6*d^2*e^2*j^2 + 6*a^2*b^4*c^2*e^3*1^3 + 4 \\
&*a^3*b^2*c^3*f^3*k^3 + 14*a^2*b^3*c^3*d^3*1^3 - 9*a^2*c^6*e^2*f^2*g^2 - 9*a \\
&^2*c^6*d^2*f^2*h^2 - 5*a^2*b^3*c^3*e^3*k^3 - 3*a^3*b^2*c^3*f^2*j^4 - 3*a^2* \\
&b^2*c^4*f^4*j^2 + a^2*b^3*c^3*f^3*j^3 - 18*a^2*b^2*c^4*d^3*k^3 + 12*a^3*b^2 \\
&*c^3*d^2*k^4 + 4*a^2*b^2*c^4*e^3*j^3 - 3*a^2*b^4*c^2*d^2*k^4 - 3*a^2*b^2*c^ \\
&4*e^2*h^4 + 6*a^7*c*k*1^4*m - 3*a^7*b*k*1*m^4 - 6*a^7*c*h*k*m^4 - 6*a^7*c*g
\end{aligned}$$

$$\begin{aligned}
& *l^m^4 + 3a^6b^*c^*h^*l^5 - 6a^*c^7d^4e^*j - 6a^*c^7d^4f^*h - 3b^*c^7d^4* \\
& e^*f + 6a^*c^7d^4e^4*f + 3a^*b^*c^6e^5*h - a^5b^2c^*j^3l^3 - a^3b^4c^*g^3 \\
& *l^3 - a^b^4c^3e^3j^3 - a^b^2c^5e^3g^3 + 3a^7b^*j^*m^5 + 6a^7c^*f^*m^ \\
& 5 + 6a^*c^7d^5k + 3b^*c^7d^5g - 3a^6c^2j^4m^2 - 3a^6b^2j^2m^4 + \\
& 2a^6c^2j^3l^3 + a^5b^3j^3m^3 - 2a^6c^2h^3m^3 - 3a^6c^2h^2l^ \\
& 4 - 3a^5c^3h^4l^2 - a^b^6c^*e^3l^3 + 20a^5c^3f^3m^3 - 15a^6c^2f \\
& ^2m^4 - 15a^4c^4f^4m^2 + 2a^5c^3h^3k^3 - 2a^5c^3g^3l^3 + a^3b \\
& ^5g^3m^3 - 3a^5c^3g^2k^4 - 3a^4c^4g^4k^2 - 3a^4b^4f^2m^4 + 20 \\
& *a^4c^4e^3l^3 - 15a^5c^3e^2l^4 - 15a^3c^5e^4l^2 + 2a^4c^4g^3* \\
& j^3 - 2a^4c^4f^3k^3 - 2a^4c^4d^3m^3 - 3b^4c^4d^4k^2 - 3a^4c^4 \\
& *f^2j^4 - 3a^3c^5f^4j^2 + 20a^3c^5d^3k^3 - 15a^4c^4d^2k^4 - 15 \\
& *a^2c^6d^4k^2 - 2a^3c^5e^3j^3 + b^5c^3d^3j^3 + 2a^3c^5f^3h^3 \\
& - 3a^3c^5e^2h^4 - 3a^2c^6e^4h^2 - 3b^2c^6d^4g^2 + 2a^2c^6e^3 \\
& *g^3 - 2a^2c^6d^3h^3 + b^3c^5d^3g^3 - 3a^2c^6d^2g^4 - a^4b^2c^ \\
& 2h^3k^3 - a^3b^2c^3g^3j^3 - a^2b^4c^2f^3k^3 - a^2b^2c^4f^3h^3 \\
& + 2a^7c^*k^3m^3 + a^7b^*l^3m^3 - 3a^7c^*j^2m^4 + 6a^3c^5f^5m - 3* \\
& a^6b^2f^*m^5 + 6a^6c^2e^*l^5 + 6a^2c^6e^5*l + b^7c^*d^3l^3 + a^b^7e \\
& ^3m^3 - 3b^2c^6d^5k + 6a^5c^3d^*k^5 - 3a^*c^7d^4g^2 + 2a^*c^7d^3* \\
& f^3 + b^*c^7d^3e^3 - a^6b^2k^3m^3 - a^4b^4h^3m^3 - a^2b^6f^3m^3 - \\
& b^6c^2d^3k^3 - b^4c^4d^3h^3 - b^2c^6d^3f^3 - b^8d^3m^3 - a^6c^ \\
& 2k^6 - a^5c^3j^6 - a^4c^4h^6 - a^3c^5g^6 - a^2c^6f^6 - a^7c^*l^6 - \\
& a^*c^7e^6 - a^8m^6 - c^8d^6, z, k1)*((1296a^3c^8f - 1296a^4c^7m - \\
& 648a^2b^2c^7f + 1944a^2b^3c^6j - 2025a^2b^4c^5m + 4536a^3b^2* \\
& c^6m + 81a^*b^4c^6*f - 243a^*b^5c^5*j - 3888a^3b^*c^7*j + 243a^*b^6c^4 \\
& *m)/c^3 + (root(34992a^4b^2c^8z^6 - 8748a^3b^4c^7z^6 + 729a^2b^6* \\
& c^6z^6 - 46656a^5c^9z^6 + 34992a^4b^3c^6mz^5 - 8748a^3b^5c^5m* \\
& z^5 + 729a^2b^7c^4mz^5 - 34992a^4b^2c^7jz^5 + 8748a^3b^4c^6j* \\
& z^5 - 729a^2b^6c^5jz^5 - 46656a^5b^*c^7mz^5 + 46656a^5c^8jz^5 + \\
& 34992a^5b^*c^6jz^4 - 11664a^5b^*c^6k^1z^4 + 3888a^4b^*c^7fjz^4 \\
& + 3888a^4b^*c^7ekz^4 + 3888a^4b^*c^7d^1z^4 + 3888a^4b^*c^7ghz^4 \\
& + 3888a^3b^*c^8de^z^4 + 243a^*b^5c^6d^*e^z^4 - 25272a^4b^3c^5jz^4 \\
& ^4 + 9720a^4b^3c^5k^1z^4 + 6075a^3b^5c^4jz^4 - 2673a^3b^5c^4 \\
& *k^1z^4 - 486a^2b^7c^3jz^4 + 243a^2b^7c^3k^1z^4 - 7776a^4b^2 \\
& *c^6hk^z^4 - 7776a^4b^2c^6g^1z^4 - 7776a^4b^2c^6f^*mz^4 + 2430a \\
& ^3b^4c^5hk^z^4 + 2430a^3b^4c^5g^1z^4 + 2430a^3b^4c^5f^*mz^4 - \\
& 243a^2b^6c^4hk^z^4 - 243a^2b^6c^4g^1z^4 - 243a^2b^6c^4f^*mz^4 \\
& - 1944a^3b^3c^6f^*jz^4 - 1944a^3b^3c^6ek^z^4 - 1944a^3b^3c^6d \\
& *l^z^4 + 243a^2b^5c^5f^*jz^4 + 243a^2b^5c^5ek^z^4 + 243a^2b^5c^ \\
& 5d^*l^z^4 - 1944a^3b^3c^6gh^z^4 + 243a^2b^5c^5gh^z^4 + 3888a^3b \\
& ^2c^7eg^z^4 + 3888a^3b^2c^7d^*hz^4 - 486a^2b^4c^6eg^z^4 - 486a \\
& ^2b^4c^6d^*hz^4 - 1944a^2b^3c^7d^*e^z^4 + 7776a^5c^7hk^z^4 + 7776 \\
& *a^5c^7g^1z^4 + 7776a^5c^7f^*mz^4 - 7776a^4c^8eg^z^4 - 7776a^4c \\
& ^8d^*hz^4 - 13608a^5b^2c^5m^2z^4 + 11421a^4b^4c^4m^2z^4 - 2916a \\
& ^3b^6c^3m^2z^4 + 243a^2b^8c^2m^2z^4 + 13608a^4b^2c^6j^2z^4 - \\
& 3159a^3b^4c^5j^2z^4 + 243a^2b^6c^4j^2z^4 + 1944a^3b^2c^7f^2z
\end{aligned}$$

$$\begin{aligned}
&^4 - 243a^2b^4c^6f^2z^4 - 3888a^6c^6m^2z^4 - 19440a^5c^7j^2z^4 \\
&- 3888a^4c^8f^2z^4 + 3078a^4b^4c^3k^1m^2z^3 - 2592a^5b^2c^4k^1 \\
&m^2z^3 - 891a^3b^6c^2k^1m^2z^3 - 4536a^4b^3c^4j^1k^1z^3 + 1053a^3b \\
&b^5c^3j^1k^1z^3 - 81a^2b^7c^2j^1k^1z^3 - 2592a^4b^3c^4h^1k^1m^2z^3 - \\
&2592a^4b^3c^4g^1m^2z^3 + 810a^3b^5c^3h^1k^1m^2z^3 + 810a^3b^5c^3g \\
&*1m^2z^3 - 81a^2b^7c^2h^1k^1m^2z^3 - 81a^2b^7c^2g^1m^2z^3 + 7776a^4b \\
&^2c^5f^1j^1m^2z^3 + 3888a^4b^2c^5h^1j^1k^1z^3 + 3888a^4b^2c^5g^1j^1z^3 \\
&- 3888a^4b^2c^5f^1k^1z^3 - 2916a^3b^4c^4f^1j^1m^2z^3 + 1458a^3b^4c^4 \\
&>f^1k^1z^3 - 972a^3b^4c^4h^1j^1k^1z^3 - 972a^3b^4c^4g^1j^1z^3 - 486a \\
&^3b^4c^4e^1k^1m^2z^3 - 486a^3b^4c^4d^1m^2z^3 + 324a^2b^6c^3f^1j^1m^2z \\
&^3 - 162a^2b^6c^3f^1k^1z^3 + 81a^2b^6c^3h^1j^1k^1z^3 + 81a^2b^6c^3g \\
&*j^1z^3 + 81a^2b^6c^3e^1k^1m^2z^3 + 81a^2b^6c^3d^1m^2z^3 - 486a^3b^4 \\
&c^4g^1h^1m^2z^3 + 81a^2b^6c^3g^1h^1m^2z^3 + 648a^3b^3c^5e^1j^1k^1z^3 + 64 \\
&8a^3b^3c^5d^1j^1z^3 - 81a^2b^5c^4e^1j^1k^1z^3 - 81a^2b^5c^4d^1j^1z \\
&^3 + 2592a^3b^3c^5e^1g^1m^2z^3 + 2592a^3b^3c^5d^1h^1m^2z^3 - 1296a^3b^3 \\
&c^5f^1h^1k^1z^3 - 1296a^3b^3c^5f^1g^1z^3 - 1296a^3b^3c^5e^1h^1z^3 + \\
&648a^3b^3c^5g^1h^1z^3 - 324a^2b^5c^4e^1g^1m^2z^3 - 324a^2b^5c^4d^1h \\
&*m^2z^3 + 162a^2b^5c^4f^1h^1k^1z^3 + 162a^2b^5c^4f^1g^1z^3 + 162a^2b^5 \\
&>c^4e^1h^1z^3 - 81a^2b^5c^4g^1h^1j^1z^3 + 5184a^3b^2c^6d^1e^1m^2z^3 - 2 \\
&592a^3b^2c^6e^1g^1j^1z^3 - 2592a^3b^2c^6d^1h^1j^1z^3 - 2106a^2b^4c^5d \\
&>*e^1m^2z^3 + 1296a^3b^2c^6e^1f^1k^1z^3 + 1296a^3b^2c^6d^1g^1k^1z^3 + 1296a \\
&^3b^2c^6d^1f^1z^3 + 324a^2b^4c^5e^1g^1j^1z^3 + 324a^2b^4c^5d^1h^1j^1z \\
&^3 - 162a^2b^4c^5e^1f^1k^1z^3 - 162a^2b^4c^5d^1g^1k^1z^3 - 162a^2b^4c^5 \\
&d^1f^1z^3 + 1296a^3b^2c^6f^1g^1h^1z^3 - 162a^2b^4c^5f^1g^1h^1z^3 + 1944a \\
&a^2b^3c^6d^1e^1j^1z^3 - 1296a^2b^2c^7d^1e^1f^1z^3 + 81a^2b^8c^3k^1m^2z^3 \\
&+ 6480a^5b^3c^5j^1k^1z^3 + 2592a^5b^3c^5h^1k^1m^2z^3 + 2592a^5b^3c^5g^1 \\
&m^2z^3 - 1296a^4b^3c^6e^1j^1k^1z^3 - 1296a^4b^3c^6d^1j^1z^3 - 5184a^4b^3c \\
&^6e^1g^1m^2z^3 - 5184a^4b^3c^6d^1h^1m^2z^3 + 2592a^4b^3c^6f^1h^1k^1z^3 + 2592a \\
&^4b^3c^6f^1g^1z^3 + 2592a^4b^3c^6e^1h^1z^3 - 1296a^4b^3c^6g^1h^1j^1z^3 + \\
&243a^4b^6c^4d^1e^1m^2z^3 - 3888a^3b^6c^7d^1e^1j^1z^3 - 243a^4b^5c^5d^1e^1j^1z \\
&^3 + 162a^4b^4c^6d^1e^1f^1z^3 - 2592a^6c^5k^1m^2z^3 - 5184a^5c^6h^1j^1k^1z \\
&^3 - 5184a^5c^6g^1j^1z^3 - 5184a^5c^6f^1j^1m^2z^3 + 2592a^5c^6f^1k^1z \\
&^3 + 2592a^5c^6e^1k^1m^2z^3 + 2592a^5c^6d^1m^2z^3 + 2592a^5c^6g^1h^1m^2z \\
&^3 + 5184a^4c^7e^1g^1j^1z^3 + 5184a^4c^7d^1h^1j^1z^3 - 2592a^4c^7e^1f^1k^1z \\
&^3 - 2592a^4c^7d^1g^1k^1z^3 - 2592a^4c^7d^1f^1z^3 - 2592a^4c^7d^1e^1m^2z \\
&^3 - 2592a^4c^7f^1g^1h^1z^3 + 2592a^3c^8d^1e^1f^1z^3 + 6480a^5b^2c^4j^1m \\
&^2z^3 + 6480a^4b^3c^4j^1m^2z^3 - 5022a^4b^4c^3j^1m^2z^3 - 1296a^3 \\
&b^5c^3j^1m^2z^3 + 1134a^3b^6c^2j^1m^2z^3 + 81a^2b^7c^2j^1m^2z^3 \\
&+ 2592a^4b^3c^4h^1l^2z^3 - 1944a^4b^2c^5h^2l^1z^3 - 810a^3b^5c^3 \\
&>*h^1l^2z^3 + 729a^3b^4c^4h^2l^1z^3 + 81a^2b^7c^2h^1l^2z^3 - 81a^2b \\
&b^6c^3h^2l^1z^3 - 5184a^4b^3c^4f^1m^2z^3 + 1620a^3b^5c^3f^1m^2z^3 \\
&+ 1296a^3b^3c^5f^2m^2z^3 - 162a^2b^7c^2f^1m^2z^3 - 162a^2b^5c^4 \\
&>f^2m^2z^3 - 1944a^4b^2c^5g^1k^2z^3 + 729a^3b^4c^4g^1k^2z^3 - 648a \\
&^3b^3c^5g^2k^1z^3 - 81a^2b^6c^3g^1k^2z^3 + 81a^2b^5c^4g^2k^1z^3 \\
&- 1944a^4b^2c^5e^1l^2z^3 + 729a^3b^4c^4e^1l^2z^3 + 648a^3b^2c^6*
\end{aligned}$$

$$\begin{aligned}
& e^2 * l * z^3 - 81 * a^2 * b^6 * c^3 * e * l^2 * z^3 - 81 * a^2 * b^4 * c^5 * e^2 * l * z^3 + 1296 * a^3 * \\
& b^3 * c^5 * f * j^2 * z^3 - 1296 * a^3 * b^2 * c^6 * f^2 * j * z^3 - 162 * a^2 * b^5 * c^4 * f * j^2 * z^3 \\
& + 162 * a^2 * b^4 * c^5 * f^2 * j * z^3 - 648 * a^3 * b^3 * c^5 * d * k^2 * z^3 + 81 * a^2 * b^5 * c^4 * d * \\
& k^2 * z^3 + 648 * a^3 * b^2 * c^6 * e * h^2 * z^3 - 81 * a^2 * b^4 * c^5 * e * h^2 * z^3 - 648 * a^2 * b^ \\
& 2 * c^7 * d^2 * g * z^3 - 10368 * a^5 * b * c^5 * j^2 * m * z^3 - 81 * a^2 * b^8 * c * j * m^2 * z^3 - 2592 \\
& * a^5 * b * c^5 * h * l^2 * z^3 + 5184 * a^5 * b * c^5 * f * m^2 * z^3 - 2592 * a^4 * b * c^6 * f^2 * m * z^3 \\
& + 1296 * a^4 * b * c^6 * g^2 * k * z^3 - 2592 * a^4 * b * c^6 * f * j^2 * z^3 + 1296 * a^4 * b * c^6 * d * k^ \\
& 2 * z^3 + 81 * a * b^4 * c^6 * d^2 * g * z^3 + 2592 * a^6 * c^5 * j * m^2 * z^3 + 1296 * a^5 * c^6 * h^2 * \\
& l * z^3 + 1296 * a^5 * c^6 * g * k^2 * z^3 + 1296 * a^5 * c^6 * e * l^2 * z^3 - 1296 * a^4 * c^7 * e^2 * \\
& l * z^3 + 2592 * a^4 * c^7 * f^2 * j * z^3 - 2592 * a^6 * b * c^4 * m^3 * z^3 - 324 * a^3 * b^7 * c * m^3 \\
& * z^3 - 27 * a^2 * b^8 * c * l^3 * z^3 - 1296 * a^4 * c^7 * e * h^2 * z^3 - 864 * a^5 * b * c^5 * k^3 * z^ \\
& 3 + 1296 * a^3 * c^8 * d^2 * g * z^3 + 432 * a^4 * b * c^6 * h^3 * z^3 + 27 * a * b^4 * c^6 * e^3 * z^3 - \\
& 432 * a^2 * b * c^8 * d^3 * z^3 + 216 * a * b^3 * c^7 * d^3 * z^3 + 1134 * a^4 * b^5 * c^2 * m^3 * z^3 - \\
& 432 * a^5 * b^3 * c^3 * m^3 * z^3 + 1512 * a^5 * b^2 * c^4 * l^3 * z^3 - 1107 * a^4 * b^4 * c^3 * l^3 * \\
& z^3 + 297 * a^3 * b^6 * c^2 * l^3 * z^3 + 864 * a^4 * b^3 * c^4 * k^3 * z^3 - 270 * a^3 * b^5 * c^3 * k \\
& ^3 * z^3 + 27 * a^2 * b^7 * c^2 * k^3 * z^3 - 2592 * a^4 * b^2 * c^5 * j^3 * z^3 + 486 * a^3 * b^4 * c^ \\
& 4 * j^3 * z^3 - 27 * a^2 * b^6 * c^3 * j^3 * z^3 - 216 * a^3 * b^3 * c^5 * h^3 * z^3 + 27 * a^2 * b^5 * c \\
& ^4 * h^3 * z^3 + 216 * a^3 * b^2 * c^6 * g^3 * z^3 - 27 * a^2 * b^4 * c^5 * g^3 * z^3 - 216 * a^2 * b^2 \\
& * c^7 * e^3 * z^3 - 432 * a^6 * c^5 * l^3 * z^3 + 27 * a^2 * b^9 * m^3 * z^3 + 4320 * a^5 * c^6 * j^3 * \\
& z^3 - 432 * a^4 * c^7 * g^3 * z^3 + 432 * a^3 * c^8 * e^3 * z^3 - 27 * b^5 * c^6 * d^3 * z^3 + 81 * a \\
& ^3 * b^6 * c * j * k * l * m * z^2 - 1296 * a^5 * b * c^4 * h * j * k * m * z^2 - 1296 * a^5 * b * c^4 * g * j * l * m * \\
& z^2 + 1296 * a^5 * b * c^4 * f * k * l * m * z^2 - 81 * a^2 * b^7 * c * f * k * l * m * z^2 + 2592 * a^4 * b * c^ \\
& 5 * e * g * j * m * z^2 + 2592 * a^4 * b * c^5 * d * h * j * m * z^2 - 1296 * a^4 * b * c^5 * f * h * j * k * z^2 - 1 \\
& 296 * a^4 * b * c^5 * f * g * j * l * z^2 - 1296 * a^4 * b * c^5 * e * f * k * m * z^2 - 1296 * a^4 * b * c^5 * d * f \\
& * l * m * z^2 - 648 * a^4 * b * c^5 * e * h * j * l * z^2 - 648 * a^4 * b * c^5 * e * g * k * l * z^2 - 648 * a^4 * \\
& b * c^5 * d * h * k * l * z^2 - 648 * a^4 * b * c^5 * d * g * k * m * z^2 - 1296 * a^4 * b * c^5 * f * g * h * m * z^2 \\
& - 162 * a * b^6 * c^3 * d * e * j * m * z^2 + 81 * a * b^6 * c^3 * d * e * k * l * z^2 + 1296 * a^3 * b * c^6 * d * e \\
& * f * m * z^2 - 648 * a^3 * b * c^6 * d * f * g * k * z^2 - 648 * a^3 * b * c^6 * d * e * h * k * z^2 - 648 * a^3 * \\
& b * c^6 * d * e * g * l * z^2 - 81 * a * b^5 * c^4 * d * e * h * k * z^2 - 81 * a * b^5 * c^4 * d * e * g * l * z^2 + 8 \\
& 1 * a * b^5 * c^4 * d * e * f * m * z^2 - 81 * a * b^4 * c^5 * d * e * f * j * z^2 + 81 * a * b^4 * c^5 * d * e * g * h * z \\
& ^2 + 648 * a^5 * b^2 * c^3 * j * k * l * m * z^2 - 567 * a^4 * b^4 * c^2 * j * k * l * m * z^2 - 1944 * a^4 * b \\
& ^3 * c^3 * f * k * l * m * z^2 + 729 * a^3 * b^5 * c^2 * f * k * l * m * z^2 + 648 * a^4 * b^3 * c^3 * h * j * k * m * \\
& z^2 + 648 * a^4 * b^3 * c^3 * g * j * l * m * z^2 - 81 * a^3 * b^5 * c^2 * h * j * k * m * z^2 - 81 * a^3 * b^5 \\
& * c^2 * g * j * l * m * z^2 + 1944 * a^4 * b^2 * c^4 * f * j * k * l * z^2 - 729 * a^3 * b^4 * c^3 * f * j * k * l * z \\
& ^2 + 648 * a^4 * b^2 * c^4 * e * j * k * m * z^2 + 648 * a^4 * b^2 * c^4 * d * j * l * m * z^2 - 81 * a^3 * b^4 \\
& * c^3 * e * j * k * m * z^2 - 81 * a^3 * b^4 * c^3 * d * j * l * m * z^2 + 81 * a^2 * b^6 * c^2 * f * j * k * l * z^2 \\
& + 1296 * a^4 * b^2 * c^4 * f * h * k * m * z^2 + 1296 * a^4 * b^2 * c^4 * f * g * l * m * z^2 + 648 * a^4 * b^2 \\
& * c^4 * g * h * j * m * z^2 - 648 * a^3 * b^4 * c^3 * f * h * k * m * z^2 - 648 * a^3 * b^4 * c^3 * f * g * l * m * z^ \\
& 2 - 324 * a^4 * b^2 * c^4 * g * h * k * l * z^2 - 324 * a^4 * b^2 * c^4 * e * h * l * m * z^2 + 81 * a^3 * b^4 * \\
& c^3 * g * h * k * l * z^2 - 81 * a^3 * b^4 * c^3 * g * h * j * m * z^2 + 81 * a^2 * b^6 * c^2 * f * h * k * m * z^2 + \\
& 81 * a^2 * b^6 * c^2 * f * g * l * m * z^2 - 1296 * a^3 * b^3 * c^4 * e * g * j * m * z^2 - 1296 * a^3 * b^3 * c \\
& ^4 * d * h * j * m * z^2 + 648 * a^3 * b^3 * c^4 * f * h * j * k * z^2 + 648 * a^3 * b^3 * c^4 * f * g * j * l * z^2 \\
& + 648 * a^3 * b^3 * c^4 * e * f * k * m * z^2 + 648 * a^3 * b^3 * c^4 * d * f * l * m * z^2 + 486 * a^3 * b^3 * c \\
& ^4 * e * g * k * l * z^2 + 486 * a^3 * b^3 * c^4 * d * h * k * l * z^2 + 162 * a^3 * b^3 * c^4 * e * h * j * l * z^2 \\
& + 162 * a^3 * b^3 * c^4 * d * g * k * m * z^2 + 162 * a^2 * b^5 * c^3 * e * g * j * m * z^2 + 162 * a^2 * b^5 * c
\end{aligned}$$

$$\begin{aligned}
&^3*d*h*j*m*z^2 - 81*a^2*b^5*c^3*f*h*j*k*z^2 - 81*a^2*b^5*c^3*f*g*j*l*z^2 - \\
&81*a^2*b^5*c^3*e*g*k*l*z^2 - 81*a^2*b^5*c^3*e*f*k*m*z^2 - 81*a^2*b^5*c^3*d* \\
&h*k*l*z^2 - 81*a^2*b^5*c^3*d*f*l*m*z^2 + 648*a^3*b^3*c^4*f*g*h*m*z^2 - 81*a \\
&^2*b^5*c^3*f*g*h*m*z^2 - 3240*a^3*b^2*c^5*d*e*j*m*z^2 + 1620*a^3*b^2*c^5*d* \\
&e*k*l*z^2 + 1377*a^2*b^4*c^4*d*e*j*m*z^2 - 648*a^3*b^2*c^5*e*f*j*k*z^2 - 64 \\
&8*a^3*b^2*c^5*d*f*j*l*z^2 - 648*a^2*b^4*c^4*d*e*k*l*z^2 - 324*a^3*b^2*c^5*d \\
&*g*j*k*z^2 + 81*a^2*b^4*c^4*e*f*j*k*z^2 + 81*a^2*b^4*c^4*d*f*j*l*z^2 + 972*a \\
&^3*b^2*c^5*e*f*h*l*z^2 - 648*a^3*b^2*c^5*f*g*h*j*z^2 - 324*a^3*b^2*c^5*e*g \\
&*h*k*z^2 - 324*a^3*b^2*c^5*d*g*h*l*z^2 - 162*a^2*b^4*c^4*e*f*h*l*z^2 + 81*a \\
&^2*b^4*c^4*f*g*h*j*z^2 + 81*a^2*b^4*c^4*e*g*h*k*z^2 + 81*a^2*b^4*c^4*d*g*h* \\
&l*z^2 - 648*a^2*b^3*c^5*d*e*f*m*z^2 + 486*a^2*b^3*c^5*d*e*h*k*z^2 + 486*a^2 \\
&*b^3*c^5*d*e*g*l*z^2 + 162*a^2*b^3*c^5*d*f*g*k*z^2 + 648*a^2*b^2*c^6*d*e*f* \\
&j*z^2 - 324*a^2*b^2*c^6*d*e*g*h*z^2 - 1296*a^6*b*c^3*k*l*m^2*z^2 - 81*a^4*b \\
&^5*c*k*l*m^2*z^2 - 1296*a^5*b*c^4*j^2*k*l*z^2 - 324*a^5*b*c^4*h^2*l*m*z^2 + \\
&324*a^5*b*c^4*h*k^2*l*z^2 - 324*a^5*b*c^4*g*k^2*m*z^2 + 972*a^5*b*c^4*h*j* \\
&l^2*z^2 + 324*a^5*b*c^4*g*k*l^2*z^2 - 324*a^5*b*c^4*e*l^2*m*z^2 - 324*a^4*b \\
&*c^5*e^2*l*m*z^2 - 1944*a^5*b*c^4*f*j*m^2*z^2 + 1296*a^5*b*c^4*e*k*m^2*z^2 \\
&+ 1296*a^5*b*c^4*d*l*m^2*z^2 + 648*a^4*b*c^5*f^2*j*m*z^2 + 81*a^2*b^7*c*f*j \\
&*m^2*z^2 + 1296*a^5*b*c^4*g*h*m^2*z^2 - 324*a^4*b*c^5*g^2*j*k*z^2 + 324*a^4 \\
&*b*c^5*g^2*h*l*z^2 + 972*a^4*b*c^5*f*h^2*l*z^2 + 324*a^4*b*c^5*g*h^2*k*z^2 \\
&- 324*a^4*b*c^5*e*h^2*m*z^2 - 324*a^4*b*c^5*d*j*k^2*z^2 - 324*a^3*b*c^6*d^2 \\
&*j*k*z^2 + 972*a^4*b*c^5*f*g*k^2*z^2 + 972*a^3*b*c^6*d^2*g*m*z^2 + 324*a^4*b \\
&*c^5*e*h*k^2*z^2 + 324*a^3*b*c^6*d^2*h*l*z^2 + 81*a*b^5*c^4*d^2*g*m*z^2 + \\
&972*a^4*b*c^5*e*f*l^2*z^2 + 324*a^4*b*c^5*d*g*l^2*z^2 - 324*a^3*b*c^6*e^2*h \\
&*j*z^2 + 324*a^3*b*c^6*e^2*g*k*z^2 - 324*a^3*b*c^6*e^2*f*l*z^2 - 1296*a^4*b \\
&*c^5*d*e*m^2*z^2 + 81*a*b^7*c^2*d*e*m^2*z^2 - 324*a^3*b*c^6*d*g^2*j*z^2 - 8 \\
&1*a*b^4*c^5*d^2*g*j*z^2 + 81*a*b^4*c^5*d^2*e*l*z^2 + 324*a^3*b*c^6*e*g^2*h* \\
&z^2 + 81*a*b^4*c^5*d*e^2*k*z^2 + 1296*a^3*b*c^6*d*e*j^2*z^2 - 324*a^3*b*c^6 \\
&*e*f*h^2*z^2 + 324*a^3*b*c^6*d*g*h^2*z^2 + 81*a*b^5*c^4*d*e*j^2*z^2 - 324*a \\
&^2*b*c^7*d^2*f*g*z^2 + 324*a^2*b*c^7*d^2*e*h*z^2 + 81*a*b^3*c^6*d^2*f*g*z^2 \\
&- 81*a*b^3*c^6*d^2*e*h*z^2 + 324*a^2*b*c^7*d*e^2*g*z^2 - 81*a*b^3*c^6*d*e^ \\
&2*g*z^2 + 1296*a^6*c^4*j*k*l*m*z^2 - 1296*a^5*c^5*f*j*k*l*z^2 - 1296*a^5*c^ \\
&5*e*j*k*m*z^2 - 1296*a^5*c^5*d*j*l*m*z^2 - 1296*a^5*c^5*g*h*j*m*z^2 + 1296* \\
&a^5*c^5*e*h*l*m*z^2 + 1296*a^4*c^6*e*f*j*k*z^2 + 1296*a^4*c^6*d*g*j*k*z^2 + \\
&1296*a^4*c^6*d*f*j*l*z^2 - 1296*a^4*c^6*d*e*k*l*z^2 + 1296*a^4*c^6*d*e*j*m \\
&*z^2 + 1296*a^4*c^6*f*g*h*j*z^2 - 1296*a^4*c^6*e*f*h*l*z^2 - 1296*a^3*c^7*d \\
&*e*f*j*z^2 + 648*a^5*b^3*c^2*k*l*m^2*z^2 + 648*a^4*b^3*c^3*j^2*k*l*z^2 + 48 \\
&6*a^5*b^2*c^3*h*l^2*m*z^2 - 81*a^4*b^4*c^2*h*l^2*m*z^2 + 81*a^4*b^3*c^3*h^2 \\
&*l*m*z^2 - 81*a^3*b^5*c^2*j^2*k*l*z^2 - 162*a^4*b^2*c^4*g^2*k*m*z^2 - 81*a^ \\
&4*b^3*c^3*h*k^2*l*z^2 + 81*a^4*b^3*c^3*g*k^2*m*z^2 - 567*a^4*b^3*c^3*h*j*l^ \\
&2*z^2 + 486*a^4*b^2*c^4*h^2*j*l*z^2 - 81*a^4*b^3*c^3*g*k*l^2*z^2 + 81*a^4*b \\
&^3*c^3*e*l^2*m*z^2 + 81*a^3*b^5*c^2*h*j*l^2*z^2 - 81*a^3*b^4*c^3*h^2*j*l*z^ \\
&2 + 81*a^3*b^3*c^4*e^2*l*m*z^2 + 2430*a^4*b^3*c^3*f*j*m^2*z^2 - 2268*a^4*b^ \\
&2*c^4*f*j^2*m*z^2 - 810*a^3*b^5*c^2*f*j*m^2*z^2 + 810*a^3*b^4*c^3*f*j^2*m*z \\
&^2 - 648*a^4*b^3*c^3*e*k*m^2*z^2 - 648*a^4*b^3*c^3*d*l*m^2*z^2 - 648*a^4*b^
\end{aligned}$$

$$\begin{aligned}
& 2*c^4*h*j^2*k*z^2 - 648*a^4*b^2*c^4*g*j^2*l*z^2 - 162*a^3*b^3*c^4*f^2*j*m*z^2 \\
& + 81*a^3*b^5*c^2*e*k*m^2*z^2 + 81*a^3*b^5*c^2*d*l*m^2*z^2 + 81*a^3*b^4*c^3*h*j^2*k*z^2 \\
& + 81*a^3*b^4*c^3*g*j^2*l*z^2 - 81*a^2*b^6*c^2*f*j^2*m*z^2 - 648*a^4*b^3*c^3*g*h*m^2*z^2 \\
& + 486*a^4*b^2*c^4*g*j*k^2*z^2 - 486*a^4*b^2*c^4*e*k^2*l*z^2 + 486*a^3*b^2*c^5*d^2*k*m*z^2 \\
& - 162*a^4*b^2*c^4*d*k^2*m*z^2 + 81*a^3*b^5*c^2*g*h*m^2*z^2 - 81*a^3*b^4*c^3*g*j*k^2*z^2 \\
& + 81*a^3*b^4*c^3*e*k^2*l*z^2 + 81*a^3*b^3*c^4*g^2*j*k*z^2 - 81*a^2*b^4*c^4*d^2*k*m*z^2 + 486*a^4*b^2*c^4*e*j*l^2*z^2 \\
& - 486*a^4*b^2*c^4*d*k*k^1^2*z^2 - 162*a^3*b^2*c^5*e^2*j*l*z^2 - 81*a^3*b^4*c^3*e*j*l^2*z^2 \\
& + 81*a^3*b^4*c^3*d*k*k^1^2*z^2 - 81*a^3*b^3*c^4*g^2*h*l*z^2 - 1458*a^4*b^2*c^4*f*h*l^2*z^2 \\
& + 648*a^3*b^4*c^3*f*h*l^2*z^2 - 567*a^3*b^3*c^4*f*h^2*l*z^2 + 486*a^3*b^2*c^5*e^2*h*m*z^2 \\
& - 81*a^3*b^3*c^4*g*h^2*k*z^2 + 81*a^3*b^3*c^4*e*h^2*m*z^2 - 81*a^2*b^6*c^2*f*h*l^2*z^2 \\
& + 81*a^2*b^5*c^3*f*h^2*l*z^2 - 81*a^2*b^4*c^4*e^2*h*m*z^2 - 1296*a^4*b^2*c^4*e*g*m^2*z^2 \\
& - 1296*a^4*b^2*c^4*d*h*m^2*z^2 + 648*a^3*b^4*c^3*e*g*m^2*z^2 + 648*a^3*b^4*c^3*d*h*m^2*z^2 \\
& + 81*a^3*b^3*c^4*d*j*k^2*z^2 - 81*a^2*b^6*c^2*e*g*m^2*z^2 - 81*a^2*b^6*c^2*d*h*m^2*z^2 \\
& + 81*a^2*b^3*c^5*d^2*j*k*z^2 - 567*a^3*b^3*c^4*f*g*k^2*z^2 - 567*a^2*b^3*c^5*d^2*g*m*z^2 \\
& + 486*a^3*b^2*c^5*f*g^2*k*z^2 - 486*a^3*b^2*c^5*e*g^2*l*z^2 + 486*a^3*b^2*c^5*d*g^2*m*z^2 \\
& - 81*a^3*b^3*c^4*e*h*k^2*z^2 + 81*a^2*b^5*c^3*f*g*k^2*z^2 - 81*a^2*b^4*c^4*f*g^2*k*z^2 \\
& + 81*a^2*b^4*c^4*e*g^2*l*z^2 - 81*a^2*b^4*c^4*d*g^2*m*z^2 - 81*a^2*b^3*c^5*d^2*h*l*z^2 \\
& - 567*a^3*b^3*c^4*e*f*l^2*z^2 - 486*a^3*b^2*c^5*d*h^2*k*z^2 - 162*a^3*b^2*c^5*e*h^2*j*z^2 \\
& - 81*a^3*b^3*c^4*d*g*l^2*z^2 + 81*a^2*b^5*c^3*e*f*l^2*z^2 + 81*a^2*b^4*c^4*d*h^2*k*z^2 \\
& + 81*a^2*b^3*c^5*e^2*h*j*z^2 - 81*a^2*b^3*c^5*e^2*g*k*z^2 + 81*a^2*b^3*c^5*e^2*f*l*z^2 \\
& + 1944*a^3*b^3*c^4*d*e*m^2*z^2 - 729*a^2*b^5*c^3*d*e*m^2*z^2 + 648*a^3*b^2*c^5*e*g*j^2*z^2 \\
& + 648*a^3*b^2*c^5*d*h*j^2*z^2 - 81*a^2*b^4*c^4*e*g*j^2*z^2 - 81*a^2*b^4*c^4*d*h*j^2*z^2 \\
& + 486*a^3*b^2*c^5*d*f*k^2*z^2 + 486*a^2*b^2*c^6*d^2*g*j*z^2 - 486*a^2*b^2*c^6*d^2*e*l*z^2 \\
& - 162*a^2*b^2*c^6*d^2*f*k*z^2 - 81*a^2*b^4*c^4*d*f*k^2*z^2 + 81*a^2*b^3*c^5*d*g^2*j*z^2 \\
& - 486*a^2*b^2*c^6*d*e^2*k*z^2 - 81*a^2*b^3*c^5*e*g^2*h*z^2 - 648*a^2*b^3*c^5*d*e*j^2*z^2 \\
& - 162*a^2*b^2*c^6*e^2*f*h*z^2 + 81*a^2*b^3*c^5*e*f*h^2*z^2 - 81*a^2*b^3*c^5*d*g*h^2*z^2 \\
& - 162*a^2*b^2*c^6*d*f*g^2*z^2 - 189*a^5*b^3*c^2*l^3*m*z^2 + 162*a^5*b^2*c^3*k^3*m*z^2 \\
& - 27*a^4*b^4*c^2*k^3*m*z^2 - 702*a^4*b^3*c^3*j^3*m*z^2 - 81*a^3*b^6*c*j^2*m^2*z^2 \\
& + 81*a^3*b^5*c^2*j^3*m*z^2 - 54*a^5*b^3*c^2*j*m^3*z^2 - 486*a^5*b^2*c^3*j*l^3*z^2 \\
& + 216*a^4*b^4*c^2*j*l^3*z^2 - 189*a^4*b^3*c^3*j*k^3*z^2 - 54*a^4*b^2*c^4*h^3*m*z^2 \\
& + 27*a^3*b^5*c^2*j*k^3*z^2 + 27*a^3*b^3*c^4*g^3*m*z^2 - 810*a^4*b^4*c^2*f*m^3*z^2 \\
& + 540*a^5*b^2*c^3*f*m^3*z^2 - 324*a^3*b^2*c^5*f^3*m*z^2 + 54*a^2*b^4*c^4*f^3*m*z^2 \\
& + 675*a^4*b^3*c^3*f*l^3*z^2 - 243*a^3*b^5*c^2*f*l^3*z^2 - 189*a^2*b^3*c^5*e^3*m*z^2 \\
& + 27*a^3*b^3*c^4*h^3*j*z^2 - 486*a^4*b^2*c^4*f*k^3*z^2 - 486*a^2*b^2*c^6*d^3*m*z^2 \\
& + 216*a^3*b^4*c^3*f*k^3*z^2 - 54*a^3*b^2*c^5*g^3*j*z^2 - 27*a^2*b^6*c^2*f*k^3*z^2 \\
& - 270*a^3*b^3*c^4*f*j^3*z^2 - 54*a^2*b^3*c^5*f^3*j*z^2 + 27*a^2*b^5*c^3*f*j^3*z^2 \\
& + 162*a^2*b^2*c^6*e^3*j*z^2 + 162*a^3*b^2*c^5*f*h^3*z^2 - 27*a^2*b^4*c^4*f*h^3*z^2 \\
& + 27*a^2*b^3*c^5*f*g^3*z^2 + 81*a*b^2*c^7*d^2*e^2*z^2 - 648*a^6*c^4*h*l^2*m*z^2 \\
& + 648*a^5*c^5*g^2*k*m*z^2 - 648*a^5*c^5*h^2*j*l*z^2 + 1296*a^5
\end{aligned}$$

$$\begin{aligned}
& c^5 h^j k^2 m^2 z^2 + 1296 a^5 c^5 g^j k^2 l^2 z^2 + 1296 a^5 c^5 f^j k^2 m^2 z^2 - 64 \\
& 8 a^5 c^5 g^j k^2 z^2 + 648 a^5 c^5 e^k l^2 z^2 + 648 a^5 c^5 d^k l^2 m^2 z^2 - \\
& 648 a^4 c^6 d^2 k m^2 z^2 - 648 a^5 c^5 e^j l^2 z^2 + 648 a^5 c^5 d^k l^2 z^2 \\
& 2 + 648 a^4 c^6 e^2 j l^2 z^2 + 324 a^6 b^3 c^3 l^3 m^2 z^2 + 27 a^4 b^5 c^3 l^3 m^2 \\
& z^2 + 648 a^5 c^5 f^h l^2 z^2 - 648 a^4 c^6 e^2 h m^2 z^2 + 1512 a^5 b^3 c^4 j^3 \\
& m^2 z^2 + 1080 a^6 b^3 c^3 j^3 m^2 z^2 - 162 a^4 b^5 c^3 j^3 m^2 z^2 - 648 a^4 c^6 f \\
& g^2 k^2 z^2 + 648 a^4 c^6 e^2 g^2 l^2 z^2 - 648 a^4 c^6 d^2 g^2 m^2 z^2 - 27 a^3 b^6 \\
& c^2 j^3 l^3 z^2 + 648 a^4 c^6 e^2 h^2 j^3 z^2 + 648 a^4 c^6 d^2 h^2 k^2 z^2 + 324 a^5 \\
& b^3 c^4 j^3 k^3 z^2 - 1296 a^4 c^6 e^2 g^2 j^3 z^2 - 1296 a^4 c^6 d^2 h^2 j^3 z^2 - 10 \\
& 8 a^4 b^3 c^5 g^3 m^2 z^2 - 648 a^4 c^6 d^2 f^k l^2 z^2 - 648 a^3 c^7 d^2 g^2 j^3 z^2 + \\
& 648 a^3 c^7 d^2 f^k l^2 z^2 + 648 a^3 c^7 d^2 e^2 l^2 z^2 + 270 a^3 b^6 c^3 f^3 m^2 z^2 \\
& 2 + 648 a^3 c^7 d^2 e^2 k^2 z^2 - 540 a^5 b^3 c^4 f^3 l^3 z^2 + 324 a^3 b^3 c^6 e^3 m^2 \\
& z^2 - 108 a^4 b^3 c^5 h^3 j^3 z^2 + 27 a^2 b^7 c^3 f^3 l^3 z^2 + 27 a^3 b^5 c^4 e^3 m^2 \\
& z^2 + 648 a^3 c^7 e^2 f^h z^2 + 216 a^2 b^4 c^5 d^3 m^2 z^2 + 648 a^4 b^3 c^5 f^j \\
& j^3 z^2 + 216 a^3 b^3 c^6 f^3 j^3 z^2 + 648 a^3 c^7 d^2 f^g^2 z^2 - 27 a^2 b^4 c^5 \\
& e^3 j^3 z^2 + 324 a^2 b^3 c^7 d^3 j^3 z^2 - 189 a^2 b^3 c^6 d^3 j^3 z^2 - 108 a^3 b^3 \\
& c^6 f^g^3 z^2 - 108 a^2 b^3 c^7 e^3 f^3 z^2 + 27 a^2 b^3 c^6 e^3 f^3 z^2 + 162 a^2 b^2 \\
& c^7 d^3 f^3 z^2 - 1134 a^5 b^2 c^3 j^2 m^2 z^2 + 648 a^4 b^4 c^2 j^2 m^2 z^2 \\
& 2 + 81 a^5 b^2 c^3 k^2 l^2 z^2 + 162 a^4 b^2 c^4 f^2 m^2 z^2 + 81 a^4 b^2 c^4 h^2 k^2 z^2 \\
& + 81 a^4 b^2 c^4 g^2 l^2 z^2 + 162 a^3 b^2 c^5 f^2 j^2 z^2 + 81 a^3 b^2 c^5 e^2 k^2 z^2 \\
& + 81 a^3 b^2 c^5 d^2 l^2 z^2 + 81 a^3 b^2 c^5 g^2 h^2 z^2 + 81 a^2 b^2 c^6 d^2 h^2 z^2 - 216 \\
& a^6 c^4 k^3 m^2 z^2 + 216 a^6 c^4 j^3 l^3 z^2 + 27 a^3 b^7 j^3 m^2 z^2 + 216 a^5 c^5 \\
& h^3 m^2 z^2 + 432 a^6 c^4 f^3 m^2 z^2 + 432 a^4 c^6 f^3 m^2 z^2 - 27 b^6 c^4 d^3 \\
& m^2 z^2 - 27 a^2 b^8 f^3 m^2 z^2 + 216 a^5 c^5 f^k l^3 z^2 + 216 a^4 c^6 g^3 j^3 \\
& z^2 + 216 a^3 c^7 d^3 m^2 z^2 + 216 a^5 b^4 c^3 m^4 z^2 - 216 a^3 c^7 e^3 j^3 z^2 \\
& + 27 b^5 c^5 d^3 j^3 z^2 - 216 a^4 c^6 f^h l^3 z^2 - 27 b^4 c^6 d^3 f^3 z^2 - \\
& 216 a^2 c^8 d^3 f^3 z^2 - 648 a^6 c^4 j^2 m^2 z^2 - 324 a^6 c^4 k^2 l^2 z^2 - \\
& 648 a^5 c^5 f^2 m^2 z^2 - 324 a^5 c^5 h^2 k^2 z^2 - 324 a^5 c^5 g^2 l^2 z^2 - \\
& 648 a^4 c^6 f^2 j^2 z^2 - 324 a^4 c^6 e^2 k^2 z^2 - 324 a^4 c^6 d^2 l^2 \\
& z^2 - 405 a^6 b^2 c^2 m^4 z^2 - 324 a^4 c^6 g^2 h^2 z^2 - 324 a^3 c^7 e^2 g^2 z^2 - \\
& 324 a^3 c^7 d^2 h^2 z^2 + 243 a^4 b^2 c^4 j^4 z^2 - 27 a^3 b^4 c^3 j^4 z^2 - \\
& 324 a^2 c^8 d^2 e^2 z^2 + 27 a^2 b^2 c^6 f^4 z^2 - 108 a^7 c^3 m^4 z^2 - 27 a^4 b^6 \\
& m^4 z^2 - 540 a^5 c^5 j^4 z^2 - 108 a^3 c^7 f^4 z^2 - 216 a^5 b^3 c^3 f^j k l^2 m^2 z \\
& - 54 a^3 b^5 c^3 f^j k l^2 m^2 z + 27 a^3 b^5 c^3 g^h k l^2 m^2 z - 27 a^2 b^6 c^3 e^g \\
& k l^2 m^2 z - 27 a^2 b^6 c^3 d^h k l^2 m^2 z + 432 a^4 b^3 c^4 d^g j^k m^2 z - 432 a^4 \\
& b^3 c^4 d^e k l^2 m^2 z + 216 a^4 b^3 c^4 e^g j^k l^2 z + 216 a^4 b^3 c^4 e^f j^k m^2 z + \\
& 216 a^4 b^3 c^4 d^h j^k l^2 z + 216 a^4 b^3 c^4 d^f j^k l^2 m^2 z + 216 a^4 b^3 c^4 f^g \\
& h^j m^2 z - 27 a^2 b^6 c^2 d^e j^k l^2 z - 27 a^2 b^6 c^2 d^e h^k m^2 z - 27 a^2 b^6 \\
& c^2 d^e g^l m^2 z + 216 a^3 b^3 c^5 d^e h^j k^2 z + 216 a^3 b^3 c^5 d^e g^j k^2 l^2 z - \\
& 216 a^3 b^3 c^5 d^e f^j k^2 m^2 z + 27 a^2 b^5 c^3 d^e h^j k^2 z + 27 a^2 b^5 c^3 d^e \\
& g^h j^k^2 z + 27 a^2 b^5 c^3 d^e g^h j^k^2 z - 27 a^2 b^4 c^4 d^e g^h j^k^2 z + 27 a^2 \\
& b^4 c^4 d^e k^2 l^2 m^2 z + 270 a^4 b^3 c^2 f^j k l^2 m^2 z - 108 a^4 b^3 c^2 g^h k l^2 m^2 z \\
& - 216 a^4 b^2 c^3 f^h j^k m^2 z - 216 a^4 b^2 c^3 f^g j^k l^2 m^2 z - 216 a^4 b^2 c^3 e^g \\
& k l^2 m^2 z - 216 a^4 b^2 c^3 d^h k l^2 m^2 z + 162 a^3 b^4 c^2
\end{aligned}$$

$$\begin{aligned}
& *e*g*k*1*m*z + 162*a^3*b^4*c^2*d*h*k*1*m*z + 108*a^4*b^2*c^3*g*h*j*k*1*z + \\
& 108*a^4*b^2*c^3*e*h*j*1*m*z + 54*a^3*b^4*c^2*f*h*j*k*m*z + 54*a^3*b^4*c^2*f \\
& *g*j*1*m*z - 27*a^3*b^4*c^2*g*h*j*k*1*z + 540*a^3*b^3*c^3*d*e*k*1*m*z - 216 \\
& *a^2*b^5*c^2*d*e*k*1*m*z - 162*a^3*b^3*c^3*e*g*j*k*1*z - 162*a^3*b^3*c^3*d* \\
& h*j*k*1*z - 108*a^3*b^3*c^3*d*g*j*k*m*z - 54*a^3*b^3*c^3*e*f*j*k*m*z - 54*a \\
& ^3*b^3*c^3*d*f*j*1*m*z + 27*a^2*b^5*c^2*e*g*j*k*1*z + 27*a^2*b^5*c^2*d*h*j* \\
& k*1*z - 108*a^3*b^3*c^3*e*g*h*k*m*z - 108*a^3*b^3*c^3*d*g*h*1*m*z - 54*a^3* \\
& b^3*c^3*f*g*h*j*m*z + 27*a^2*b^5*c^2*e*g*h*k*m*z + 27*a^2*b^5*c^2*d*g*h*1*m \\
& *z - 540*a^3*b^2*c^4*d*e*j*k*1*z + 216*a^2*b^4*c^3*d*e*j*k*1*z - 216*a^3*b^ \\
& 2*c^4*d*e*h*k*m*z - 216*a^3*b^2*c^4*d*e*g*1*m*z + 162*a^2*b^4*c^3*d*e*h*k*m \\
& *z + 162*a^2*b^4*c^3*d*e*g*1*m*z + 108*a^3*b^2*c^4*e*g*h*j*k*z - 108*a^3*b^ \\
& 2*c^4*e*f*h*j*1*z + 108*a^3*b^2*c^4*d*g*h*j*1*z + 108*a^3*b^2*c^4*d*f*g*k*m \\
& *z - 27*a^2*b^4*c^3*e*g*h*j*k*z - 27*a^2*b^4*c^3*d*g*h*j*1*z - 162*a^2*b^3* \\
& c^4*d*e*h*j*k*z - 162*a^2*b^3*c^4*d*e*g*j*1*z + 54*a^2*b^3*c^4*d*e*f*j*m*z \\
& - 108*a^2*b^3*c^4*d*e*g*h*m*z + 108*a^2*b^2*c^5*d*e*g*h*j*z + 324*a^6*b*c^2 \\
& *j*k*1*m^2*z - 81*a^5*b^3*c*j*k*1*m^2*z + 27*a^4*b^4*c*j^2*k*1*m*z - 27*a^4 \\
& *b^4*c*h*k^2*1*m*z - 27*a^4*b^4*c*g*k*1^2*m*z + 216*a^5*b*c^3*h*j^2*k*m*z + \\
& 216*a^5*b*c^3*g*j^2*1*m*z + 54*a^4*b^4*c*f*k*1*m^2*z + 27*a^4*b^4*c*h*j*k* \\
& m^2*z + 27*a^4*b^4*c*g*j*1*m^2*z + 27*a^2*b^6*c*f^2*k*1*m*z + 216*a^5*b*c^3 \\
& *e*k^2*1*m*z - 108*a^5*b*c^3*h*j*k^2*1*z + 27*a^3*b^5*c*e*k^2*1*m*z + 216*a \\
& ^5*b*c^3*d*k*1^2*m*z + 216*a^4*b*c^4*e^2*j*1*m*z - 108*a^5*b*c^3*g*j*k*1^2* \\
& z + 27*a^3*b^5*c*d*k*1^2*m*z - 324*a^5*b*c^3*e*j*k*m^2*z - 324*a^5*b*c^3*d* \\
& j*1*m^2*z - 216*a^5*b*c^3*f*h*1^2*m*z - 108*a^4*b*c^4*f^2*j*k*1*z - 27*a^3* \\
& b^5*c*e*j*k*m^2*z - 27*a^3*b^5*c*d*j*1*m^2*z - 324*a^5*b*c^3*g*h*j*m^2*z + \\
& 216*a^5*b*c^3*f*h*k*m^2*z + 216*a^5*b*c^3*f*g*1*m^2*z + 216*a^5*b*c^3*e*h*1 \\
& *m^2*z - 216*a^4*b*c^4*f^2*h*k*m*z - 216*a^4*b*c^4*f^2*g*1*m*z - 27*a^3*b^5 \\
& *c*g*h*j*m^2*z + 216*a^4*b*c^4*e*g^2*1*m*z - 108*a^4*b*c^4*g^2*h*j*1*z - 21 \\
& 6*a^4*b*c^4*f*h^2*j*1*z + 216*a^4*b*c^4*e*h^2*j*m*z + 216*a^4*b*c^4*d*h^2*k \\
& *m*z - 108*a^4*b*c^4*g*h^2*j*k*z - 432*a^4*b*c^4*e*g*j^2*m*z - 432*a^4*b*c^ \\
& 4*d*h*j^2*m*z + 216*a^4*b*c^4*f*h*j^2*k*z + 216*a^4*b*c^4*f*g*j^2*1*z + 27* \\
& a^2*b^6*c*e*g*j*m^2*z + 27*a^2*b^6*c*d*h*j*m^2*z - 432*a^3*b*c^5*d^2*g*j*m* \\
& z - 216*a^4*b*c^4*f*g*j*k^2*z + 216*a^3*b*c^5*d^2*f*k*m*z + 216*a^3*b*c^5*d \\
& ^2*e*1*m*z - 108*a^4*b*c^4*e*h*j*k^2*z - 108*a^4*b*c^4*d*g*k^2*1*z - 108*a^ \\
& 3*b*c^5*d^2*h*j*1*z + 108*a^3*b*c^5*d^2*g*k*1*z - 54*a*b^5*c^3*d^2*g*j*m*z \\
& + 27*a*b^5*c^3*d^2*g*k*1*z + 27*a*b^5*c^3*d^2*e*1*m*z - 216*a^4*b*c^4*e*f*j \\
& *1^2*z + 216*a^3*b*c^5*d*e^2*k*m*z - 108*a^4*b*c^4*d*g*j*1^2*z - 108*a^3*b* \\
& c^5*e^2*g*j*k*z + 27*a*b^5*c^3*d*e^2*k*m*z + 324*a^4*b*c^4*d*e*j*m^2*z + 21 \\
& 6*a^3*b*c^5*e^2*f*h*m*z - 108*a^4*b*c^4*e*g*h*1^2*z + 108*a^3*b*c^5*e^2*g*h \\
& *1*z + 108*a^3*b*c^5*e*f^2*j*k*z + 108*a^3*b*c^5*d*f^2*j*1*z + 27*a*b^6*c^2 \\
& *d*e*j^2*m*z - 216*a^3*b*c^5*e*f^2*h*1*z + 108*a^3*b*c^5*f^2*g*h*j*z - 27*a \\
& *b^4*c^4*d^2*e*j*1*z + 216*a^3*b*c^5*d*f*g^2*m*z - 108*a^3*b*c^5*e*g^2*h*j* \\
& z + 54*a*b^4*c^4*d^2*f*g*m*z - 27*a*b^4*c^4*d^2*g*h*k*z - 27*a*b^4*c^4*d^2* \\
& e*h*m*z - 27*a*b^4*c^4*d*e^2*j*k*z - 108*a^3*b*c^5*d*g*h^2*j*z + 54*a*b^4*c \\
& ^4*d*e^2*h*1*z + 27*a*b^6*c^2*d*e*h*1^2*z - 27*a*b^5*c^3*d*e*h^2*1*z - 27*a \\
& *b^4*c^4*d*e^2*g*m*z - 27*a*b^4*c^4*d*e*f^2*m*z + 216*a^2*b*c^6*d^2*f*g*j*z
\end{aligned}$$

$$\begin{aligned}
& - 108a^3b^3c^5d^2e^2g^2k^2z - 108a^2b^3c^6d^2e^2h^2j^2z + 108a^2b^3c^6d^2e^2g^2k^2z - 54a^2b^3c^5d^2f^2g^2j^2z - 27a^2b^5c^3d^2e^2g^2k^2z + 27a^2b^4c^4d^2e^2g^2k^2z + 27a^2b^3c^5d^2e^2h^2j^2z - 27a^2b^3c^5d^2e^2g^2k^2z - 108a^2b^3c^6d^2e^2g^2j^2z + 27a^2b^3c^5d^2e^2g^2j^2z - 108a^2b^3c^6d^2e^2f^2j^2z + 27a^2b^3c^5d^2e^2f^2j^2z - 432a^5c^4e^2h^2j^2k^2z + 432a^4c^5d^2e^2j^2k^2z + 432a^4c^5d^2e^2f^2j^2k^2z - 432a^4c^5d^2f^2g^2k^2z - 27a^2b^7c^2d^2e^2j^2m^2z - 54a^5b^2c^2j^2k^2l^2m^2z + 108a^5b^2c^2h^2k^2l^2m^2z + 108a^5b^2c^2g^2k^2l^2m^2z - 54a^5b^2c^2h^2j^2l^2m^2z + 378a^4b^2c^3f^2k^2l^2m^2z - 270a^5b^2c^2f^2k^2l^2m^2z - 189a^3b^4c^2f^2k^2l^2m^2z - 108a^5b^2c^2h^2j^2k^2m^2z - 108a^5b^2c^2g^2j^2l^2m^2z - 54a^4b^3c^2h^2j^2k^2m^2z - 54a^4b^3c^2g^2j^2l^2m^2z - 162a^4b^3c^2e^2k^2l^2m^2z + 54a^4b^2c^3g^2j^2k^2m^2z + 27a^4b^3c^2h^2j^2k^2l^2z - 162a^4b^3c^2d^2k^2l^2m^2z + 108a^4b^2c^3g^2h^2l^2m^2z - 54a^3b^3c^3e^2j^2l^2m^2z + 27a^4b^3c^2g^2j^2k^2l^2z - 27a^3b^4c^2g^2h^2l^2m^2z - 270a^4b^2c^3f^2j^2k^2l^2z + 189a^4b^3c^2e^2j^2k^2m^2z + 189a^4b^3c^2d^2j^2l^2m^2z - 162a^4b^2c^3e^2j^2k^2m^2z - 162a^4b^2c^3d^2j^2l^2m^2z + 135a^3b^3c^3f^2j^2k^2l^2z + 108a^4b^2c^3g^2h^2k^2m^2z + 54a^4b^3c^2f^2h^2l^2m^2z - 54a^4b^2c^3f^2h^2l^2m^2z + 54a^3b^4c^2f^2j^2k^2l^2z - 27a^3b^4c^2g^2h^2k^2m^2z + 27a^3b^4c^2e^2j^2k^2m^2z + 27a^3b^4c^2d^2j^2l^2m^2z - 27a^2b^5c^2f^2j^2k^2l^2z - 270a^3b^2c^4d^2j^2k^2m^2z + 189a^4b^3c^2g^2h^2j^2m^2z - 162a^4b^2c^3g^2h^2j^2m^2z + 162a^4b^2c^3e^2j^2k^2l^2z + 162a^3b^3c^3f^2h^2k^2m^2z + 162a^3b^3c^3f^2g^2l^2m^2z - 54a^4b^3c^2f^2h^2k^2m^2z - 54a^4b^3c^2f^2g^2l^2m^2z - 54a^4b^3c^2e^2h^2l^2m^2z + 54a^4b^2c^3d^2j^2k^2m^2z + 54a^2b^4c^3d^2j^2k^2m^2z + 27a^3b^4c^2g^2h^2j^2m^2z - 27a^3b^4c^2e^2j^2k^2l^2z - 27a^2b^5c^2f^2h^2k^2m^2z - 27a^2b^5c^2f^2g^2l^2m^2z + 162a^4b^2c^3d^2j^2k^2l^2z - 162a^3b^3c^3e^2g^2l^2m^2z + 108a^4b^2c^3e^2h^2k^2m^2z + 108a^3b^2c^4d^2h^2l^2m^2z - 54a^4b^2c^3f^2g^2k^2m^2z - 27a^3b^4c^2e^2h^2k^2m^2z - 27a^3b^4c^2d^2j^2k^2l^2z + 27a^3b^3c^3g^2h^2j^2l^2z + 27a^2b^5c^2e^2g^2l^2m^2z - 27a^2b^4c^3d^2h^2l^2m^2z + 270a^4b^2c^3f^2h^2j^2l^2z - 270a^3b^2c^4e^2h^2j^2m^2z - 162a^4b^2c^3e^2h^2k^2l^2z - 162a^3b^3c^3d^2h^2k^2m^2z + 162a^3b^2c^4e^2h^2k^2l^2z + 108a^4b^2c^3d^2g^2l^2m^2z + 108a^3b^2c^4e^2g^2k^2m^2z - 54a^4b^2c^3e^2f^2l^2m^2z - 54a^3b^4c^2f^2h^2j^2l^2z + 54a^3b^3c^3f^2h^2j^2l^2z - 54a^3b^3c^3e^2h^2j^2m^2z + 54a^3b^2c^4e^2f^2l^2m^2z + 54a^2b^4c^3e^2h^2j^2m^2z + 27a^3b^4c^2e^2h^2k^2l^2z - 27a^3b^4c^2d^2g^2l^2m^2z + 27a^3b^3c^3g^2h^2j^2k^2z + 27a^2b^5c^2d^2h^2k^2m^2z - 27a^2b^4c^3e^2h^2k^2l^2z - 27a^2b^4c^3e^2g^2k^2m^2z + 432a^4b^2c^3e^2g^2j^2m^2z + 432a^4b^2c^3d^2h^2j^2m^2z - 270a^4b^2c^3d^2g^2k^2m^2z - 216a^3b^4c^2e^2g^2j^2m^2z - 216a^3b^4c^2d^2h^2j^2m^2z + 216a^3b^3c^3e^2g^2j^2m^2z + 216a^3b^3c^3d^2h^2j^2m^2z - 162a^3b^2c^4e^2f^2k^2m^2z - 162a^3b^2c^4d^2f^2l^2m^2z - 108a^3b^2c^4f^2h^2j^2k^2z - 108a^3b^2c^4f^2g^2j^2l^2z + 54a^4b^2c^3e^2f^2k^2m^2z + 54a^4b^2c^3d^2f^2l^2m^2z + 54a^3b^4c^2d^2g^2k^2m^2z - 54a^3b^3c^3f^2h^2j^2k^2z - 54a^3b^3c^3f^2g^2j^2l^2z - 27a^2b^5c^2e^2g^2j^2m^2z - 27a^2b^5c^2d^2h^2j^2m^2z + 27a^2b^4c^3f^2h^2j^2k^2z + 27a^2b^4c^3f^2g^2j^2l^2z + 27a^2b^4c^3e^2f^2k^2m^2z + 27a^2b^4c^3d^2f^2l^2m^2z
\end{aligned}$$

$$\begin{aligned}
& + 324a^2b^3c^4d^2g^2j^2m^2z - 270a^3b^2c^4d^2g^2j^2m^2z - 162a^3b^2c^4d^2g^2j^2m^2z - 162a^3b^2c^4d^2g^2j^2m^2z \\
& - 135a^2b^3c^4d^2g^2k^2l^2z + 108a^3b^2c^4d^2g^2k^2l^2z + 54a^4b^2c^4d^2g^2k^2l^2z + 54a^4b^2c^4d^2g^2k^2l^2z \\
& - 54a^3b^2c^4d^2g^2k^2l^2z - 54a^3b^2c^4d^2g^2k^2l^2z + 54a^4b^2c^4d^2g^2k^2l^2z + 54a^4b^2c^4d^2g^2k^2l^2z \\
& - 54a^3b^2c^4d^2g^2k^2l^2z + 27a^3b^2c^4d^2g^2k^2l^2z + 27a^3b^2c^4d^2g^2k^2l^2z + 27a^3b^2c^4d^2g^2k^2l^2z \\
& - 27a^2b^4c^3d^2g^2j^2m^2z - 27a^2b^4c^3d^2g^2j^2m^2z + 27a^2b^4c^3d^2g^2j^2m^2z + 27a^2b^4c^3d^2g^2j^2m^2z \\
& + 162a^3b^2c^4d^2h^2j^2k^2z - 162a^2b^3c^4d^2h^2j^2k^2z + 108a^3b^2c^4d^2h^2j^2k^2z + 108a^3b^2c^4d^2h^2j^2k^2z \\
& + 54a^3b^2c^4d^2h^2j^2k^2z + 54a^3b^2c^4d^2h^2j^2k^2z + 27a^3b^2c^4d^2h^2j^2k^2z + 27a^3b^2c^4d^2h^2j^2k^2z \\
& - 27a^2b^4c^3d^2h^2j^2k^2z - 27a^2b^4c^3d^2h^2j^2k^2z + 27a^2b^4c^3d^2h^2j^2k^2z + 27a^2b^4c^3d^2h^2j^2k^2z \\
& - 621a^3b^2c^4d^2e^2j^2m^2z + 594a^3b^2c^4d^2e^2j^2m^2z + 243a^2b^5c^2d^2e^2j^2m^2z - 243a^2b^5c^2d^2e^2j^2m^2z \\
& + 135a^3b^2c^4d^2e^2j^2m^2z + 135a^3b^2c^4d^2e^2j^2m^2z - 108a^3b^2c^4d^2e^2j^2m^2z + 108a^3b^2c^4d^2e^2j^2m^2z \\
& + 54a^3b^2c^4d^2e^2j^2m^2z + 54a^3b^2c^4d^2e^2j^2m^2z + 54a^3b^2c^4d^2e^2j^2m^2z + 54a^3b^2c^4d^2e^2j^2m^2z \\
& + 54a^3b^2c^4d^2e^2j^2m^2z + 54a^3b^2c^4d^2e^2j^2m^2z - 54a^2b^3c^4d^2e^2f^2h^2m^2z - 27a^2b^5c^2d^2e^2g^2h^2l^2z \\
& + 27a^2b^4c^3d^2e^2g^2h^2l^2z - 27a^2b^4c^3d^2e^2g^2h^2l^2z - 27a^2b^4c^3d^2e^2g^2h^2l^2z - 27a^2b^4c^3d^2e^2g^2h^2l^2z \\
& - 27a^2b^3c^4d^2e^2g^2h^2l^2z - 27a^2b^3c^4d^2e^2g^2h^2l^2z - 27a^2b^3c^4d^2e^2g^2h^2l^2z - 27a^2b^3c^4d^2e^2g^2h^2l^2z \\
& + 162a^2b^2c^5d^2e^2j^2k^2z + 54a^3b^2c^4d^2e^2j^2k^2z + 54a^3b^2c^4d^2e^2j^2k^2z + 54a^3b^2c^4d^2e^2j^2k^2z \\
& - 54a^2b^3c^4d^2e^2j^2k^2z - 27a^2b^3c^4d^2e^2j^2k^2z - 270a^2b^2c^5d^2e^2f^2g^2m^2z - 162a^3b^2c^4d^2e^2g^2h^2k^2z \\
& + 162a^2b^2c^5d^2e^2g^2h^2k^2z + 162a^2b^2c^5d^2e^2g^2h^2k^2z + 162a^2b^2c^5d^2e^2g^2h^2k^2z + 108a^2b^2c^5d^2e^2h^2m^2z \\
& - 54a^2b^3c^4d^2f^2g^2m^2z + 27a^2b^4c^3d^2g^2h^2k^2z + 270a^3b^2c^4d^2e^2h^2l^2z - 162a^2b^4c^3d^2e^2h^2l^2z + 108a^2b^3c^4d^2e^2h^2l^2z \\
& + 108a^2b^2c^5d^2e^2g^2m^2z + 54a^2b^2c^5d^2e^2f^2h^2j^2z + 27a^2b^3c^4d^2g^2h^2j^2z + 162a^2b^2c^5d^2e^2f^2m^2z - 54a^3b^2c^4d^2e^2f^2m^2z \\
& - 54a^2b^2c^5d^2f^2g^2k^2z + 135a^2b^3c^4d^2e^2g^2k^2z - 108a^2b^2c^5d^2e^2g^2k^2z + 54a^2b^2c^5d^2f^2g^2j^2z - 54a^2b^2c^5d^2e^2f^2j^2z \\
& - 9a^5b^7c^d^3e^2g^2z - 108a^6b^7c^2k^2l^2m^2z + 27a^5b^3c^2k^2l^2m^2z - 18a^5b^2c^2j^2k^3m^2z - 27a^4b^3c^2j^3k^2l^2m^2z \\
& - 108a^5b^3c^3h^2k^2l^2m^2z - 108a^5b^3c^3g^2l^2m^2z + 108a^5b^3c^3h^2k^2l^2m^2z + 108a^5b^3c^3g^2k^2m^2z + 90a^5b^2c^2f^2l^3m^2z \\
& - 18a^5b^2c^2h^2k^2l^3z + 18a^4b^2c^3h^3k^2l^2z + 18a^4b^2c^3h^3j^2m^2z - 108a^5b^3c^3h^2j^2l^2z + 18a^4b^3c^2f^2k^3m^2z - 18a^3b^3c^3g^3j^2m^2z \\
& - 9a^4b^3c^2g^2k^3l^2z + 9a^3b^3c^3g^3k^2l^2z + 252a^4b^2c^3f^2j^3m^2z + 216a^5b^3c^3f^2j^2m^2z + 180a^3b^2c^4f^3j^2m^2z \\
& - 108a^4b^3c^4e^2k^2m^2z - 108a^4b^3c^4d^2l^2m^2z + 90a^5b^2c^2e^2k^2m^3z + 90a^5b^2c^2d^2l^2m^3z - 90a^3b^2c^4f^3k^2l^2z + 54a^3b^5c^2f^2j^2m^2z \\
& - 54a^3b^4c^2f^2j^3m^2z + 36a^5b^2c^2f^2j^2m^3z + 36a^4b^2c^3h^2j^3k^2z + 36a^4b^2c^3g^2j^3l^2z - 36a^2b^4c^3f^3j^2m^2z \\
& - 27a^2b^6c^2f^2j^2m^2z + 18a^2b^4c^3f^3k^2l^2z - 216a^4b^3c^4d^2k^2m^2z + 108a^5b^3c^3d^2k^2m^2z - 108a^4b^3c^2f^2j^2l^3z - 108a^4b^3c^4g^2h^2m^2z \\
& + 108a^2b^3c^4e^3j^2m^2z + 90a^5b^2c^2g^2h^2m^3z + 54a^4b^3c^2e^2k^2l^3z - 54a^2b^3c^4e^3k^2l^2z + 234a^2b^2c^5d^3j^2m^2z \\
& - 144a^2b^2c^5d^3k^2l^2z + 90a^4b^2c^3f^2j^2k^3z - 72a^4
\end{aligned}$$

$$\begin{aligned}
& 4*b^2*c^3*d*k^3*l*z + 27*a^4*b^3*c^2*g*h*l^3*z - 27*a^3*b^3*c^3*g*h^3*l*z - \\
& 18*a^3*b^4*c^2*f*j*k^3*z + 9*a^3*b^4*c^2*d*k^3*l*z + 216*a^4*b*c^4*f^2*h*l \\
& ^2*z - 216*a^4*b*c^4*e^2*h*m^2*z + 108*a^4*b*c^4*g^2*h*k^2*z - 18*a^4*b^2*c \\
& ^3*g*h*k^3*z + 18*a^3*b^2*c^4*g^3*h*k*k*z + 18*a^3*b^2*c^4*f*g^3*m*z + 9*a^3* \\
& b^4*c^2*g*h*k^3*z - 9*a^3*b^3*c^3*e*j^3*k*z - 9*a^3*b^3*c^3*d*j^3*l*z - 144 \\
& *a^4*b^3*c^2*e*g*m^3*z - 144*a^4*b^3*c^2*d*h*m^3*z - 108*a^3*b*c^5*e^2*g^2* \\
& m*z + 108*a^3*b*c^5*d^2*j^2*k*z - 108*a^3*b*c^5*d^2*h^2*m*z - 18*a^2*b^3*c^ \\
& 4*f^3*h*k*k*z - 18*a^2*b^3*c^4*f^3*g*l*z - 9*a^3*b^3*c^3*g*h*j^3*z - 216*a^4* \\
& b*c^4*d*g^2*m^2*z + 144*a^4*b^2*c^3*e*g*l^3*z - 126*a^3*b^2*c^4*d*h^3*l*z - \\
& 108*a^4*b*c^4*d*h^2*l^2*z - 108*a^3*b*c^5*f^2*g^2*k*z - 108*a^3*b*c^5*e^2* \\
& h^2*k*k*z - 90*a^2*b^2*c^5*e^3*f*m*z + 72*a^2*b^2*c^5*e^3*g*l*z - 63*a^3*b^4* \\
& c^2*e*g*l^3*z - 36*a^3*b^4*c^2*d*h*l^3*z + 27*a^2*b^4*c^3*d*h^3*l*z + 27*a* \\
& b^6*c^2*d^2*g*m^2*z - 18*a^4*b^2*c^3*d*h*l^3*z - 18*a^3*b^2*c^4*f*h^3*j*z - \\
& 18*a^3*b^2*c^4*e*h^3*k*k*z + 18*a^2*b^2*c^5*e^3*h*k*k*z + 108*a^3*b*c^5*e^2*h* \\
& j^2*z + 54*a^3*b^3*c^3*d*h*k^3*z + 27*a^3*b^3*c^3*e*g*k^3*z - 27*a^2*b^3*c^ \\
& 4*e*g^3*k*k*z + 27*a^2*b^3*c^4*d*g^3*l*z - 27*a*b^4*c^4*d^2*g^2*l*z - 9*a^2*b \\
& ^5*c^2*e*g*k^3*z - 9*a^2*b^5*c^2*d*h*k^3*z + 207*a^3*b^4*c^2*d*e*m^3*z - 10 \\
& 8*a^2*b*c^6*d^2*e^2*m*z - 90*a^4*b^2*c^3*d*e*m^3*z - 72*a^3*b^2*c^4*e*g*j^3 \\
& *z - 72*a^3*b^2*c^4*d*h*j^3*z + 27*a*b^3*c^5*d^2*e^2*m*z + 18*a^2*b^2*c^5*e \\
& *f^3*k*k*z + 18*a^2*b^2*c^5*d*f^3*l*z + 9*a^2*b^4*c^3*e*g*j^3*z + 9*a^2*b^4*c \\
& ^3*d*h*j^3*z - 216*a^3*b*c^5*d*e^2*l^2*z - 198*a^3*b^3*c^3*d*e*l^3*z + 108* \\
& a^3*b*c^5*d*g^2*j^2*z - 108*a^3*b*c^5*d*f^2*k^2*z + 72*a^2*b^5*c^2*d*e*l^3* \\
& z - 27*a*b^5*c^3*d*e^2*l^2*z + 27*a*b^4*c^4*d^2*g*j^2*z + 18*a^2*b^2*c^5*f^ \\
& 3*g*h*z + 144*a^3*b^2*c^4*d*e*k^3*z - 63*a^2*b^4*c^3*d*e*k^3*z + 27*a*b^4*c \\
& ^4*d^2*e*k^2*z - 9*a^2*b^3*c^4*e*g*h^3*z - 108*a^2*b*c^6*d^2*g^2*h*z + 81*a \\
& ^2*b^3*c^4*d*e*j^3*z + 27*a*b^3*c^5*d^2*g^2*h*z - 27*a*b^2*c^6*d^2*e^2*j*z \\
& - 18*a^2*b^2*c^5*d*g^3*h*z + 108*a^2*b*c^6*d*e^2*h^2*z - 27*a*b^3*c^5*d*e^2 \\
& *h^2*z + 27*a*b^2*c^6*d^2*f^2*g*z - 18*a^2*b^2*c^5*d*e*h^3*z - 216*a^6*c^3* \\
& j^2*k*l*m*z + 216*a^6*c^3*h*j*l^2*m*z + 216*a^6*c^3*f*k*l*m^2*z - 216*a^5*c \\
& ^4*f^2*k*l*m*z - 216*a^5*c^4*g^2*j*k*m*z + 216*a^5*c^4*f*j^2*k*l*z + 216*a^ \\
& 5*c^4*f*h^2*l*m*z + 216*a^5*c^4*e*j^2*k*m*z + 216*a^5*c^4*d*j^2*l*m*z + 216 \\
& *a^5*c^4*g*h*j^2*m*z - 216*a^5*c^4*e*j*k^2*l*z - 216*a^5*c^4*d*j*k^2*m*z + \\
& 216*a^4*c^5*d^2*j*k*m*z - 18*a^6*b^2*c*k*l*m^3*z + 216*a^5*c^4*f*g*k^2*m*z \\
& - 216*a^5*c^4*d*j*k*l^2*z - 72*a^6*b*c^2*j*l^3*m*z + 18*a^5*b^3*c*j*l^3*m*z \\
& - 216*a^5*c^4*f*h*j*l^2*z + 216*a^5*c^4*e*h*k*l^2*z + 216*a^5*c^4*e*f*l^2* \\
& m*z - 216*a^4*c^5*e^2*h*k*l*z + 216*a^4*c^5*e^2*h*j*m*z - 216*a^4*c^5*e^2*f \\
& *l*m*z - 216*a^5*c^4*e*f*k*m^2*z + 216*a^5*c^4*d*g*k*m^2*z - 216*a^5*c^4*d* \\
& f*l*m^2*z + 216*a^4*c^5*e*f^2*k*m*z + 216*a^4*c^5*d*f^2*l*m*z + 108*a^5*b*c \\
& ^3*j^3*k*l*z - 216*a^5*c^4*f*g*h*m^2*z + 216*a^4*c^5*f^2*g*h*m*z + 216*a^4* \\
& c^5*f*g^2*j*k*k*z - 216*a^4*c^5*e*g^2*j*l*z + 216*a^4*c^5*d*g^2*j*m*z - 72*a^ \\
& 6*b*c^2*h*k*m^3*z - 72*a^6*b*c^2*g*l*m^3*z + 54*a^5*b^3*c*h*k*m^3*z + 54*a^ \\
& 5*b^3*c*g*l*m^3*z - 216*a^4*c^5*d*h^2*j*k*k*z - 18*a^4*b^4*c*f*l^3*m*z + 9*a^ \\
& 4*b^4*c*h*k*l^3*z - 216*a^4*c^5*e*f*j^2*k*k*z - 216*a^4*c^5*e*f*h^2*m*z - 216 \\
& *a^4*c^5*d*g*j^2*k*k*z - 216*a^4*c^5*d*f*j^2*l*z - 216*a^4*c^5*d*e*j^2*m*z - \\
& 72*a^5*b*c^3*f*k^3*m*z + 72*a^4*b*c^4*g^3*j*m*z + 36*a^5*b*c^3*g*k^3*l*z -
\end{aligned}$$

$$\begin{aligned}
& 36a^4b^4c^4g^3k^1z - 216a^4c^5f^5g^3h^2j^2z + 216a^4c^5d^5f^5j^2k^2z \\
& - 216a^3c^6d^2f^5j^2k^2z - 216a^3c^6d^2e^5j^2k^2z + 72a^4b^4c^4f^5j^2m^3z \\
& - 63a^4b^4c^4e^5k^2m^3z - 63a^4b^4c^4d^5l^2m^3z + 216a^4c^5d^5g^3h^2k^2z \\
& - 216a^3c^6d^2g^3h^2k^2z + 216a^3c^6d^2f^5g^3m^2z - 216a^3c^6d^2e^5j^2k^2z \\
& + 144a^5b^4c^3f^5j^2l^3z - 144a^3b^4c^5e^3j^2m^2z - 72a^5b^4c^3e^5k^2l^3z \\
& + 72a^3b^4c^5e^3k^2l^3z - 63a^4b^4c^4g^3h^2m^3z + 18a^3b^5c^4f^5j^2l^3z \\
& - 18a^3b^5c^4e^3j^2m^2z - 9a^3b^5c^4e^5k^2l^3z + 9a^3b^5c^4e^3k^2l^3z \\
& - 216a^4c^5d^5e^3h^2l^2z - 216a^3c^6e^2f^5h^2j^2z + 216a^3c^6d^2e^5h^2l^2z \\
& - 126a^4b^4c^4d^3j^2m^2z + 108a^4b^4c^4g^3h^2l^2z + 63a^4b^4c^4d^3k^2l^2z \\
& + 36a^5b^4c^3g^3h^2l^2z - 9a^3b^5c^4g^3h^2l^2z + 216a^4c^5d^5e^5f^2m^2z \\
& + 216a^3c^6d^5f^2g^3k^2z - 216a^3c^6d^5e^5f^2m^2z + 36a^4b^4c^4e^5j^3k^2z \\
& + 36a^4b^4c^4d^5j^3l^2z - 216a^3c^6d^5f^2g^2j^2z + 72a^3b^5c^4e^5g^3m^3z \\
& + 72a^3b^5c^4d^5h^2m^3z + 72a^3b^4c^5f^3h^2k^2z + 72a^3b^4c^5f^3g^2l^2z \\
& + 36a^4b^4c^4g^3h^2j^3z + 18a^4b^4c^4e^3f^2m^2z + 9a^2b^6c^4e^5g^2l^3z \\
& + 9a^2b^6c^4d^5h^2l^3z - 9a^4b^4c^4e^3h^2k^2z - 9a^4b^4c^4e^3g^2l^2z \\
& + 216a^3c^6d^5e^5f^2j^2z - 144a^2b^4c^6d^3f^2m^2z + 108a^3b^4c^5e^5g^3k^2z \\
& - 108a^3b^4c^5d^5g^3l^2z + 108a^4b^3c^5d^3f^2m^2z - 72a^4b^4c^4d^5h^2k^3z \\
& + 72a^2b^4c^6d^3h^2k^2z - 54a^4b^3c^5d^3h^2k^2z + 36a^4b^4c^4e^5g^2k^3z \\
& - 36a^2b^4c^6d^3g^2l^2z - 27a^4b^3c^5d^3g^2l^2z - 81a^2b^6c^4d^5e^5m^3z \\
& + 216a^4b^4c^4d^5e^2l^3z + 72a^2b^4c^6e^3f^2j^2z + 72a^2b^4c^6d^5e^3l^2z \\
& - 18a^4b^3c^5e^3f^2j^2z - 18a^4b^3c^5d^5e^3l^2z - 90a^4b^2c^6d^3f^2j^2z \\
& + 72a^4b^2c^6d^3e^5k^2z + 36a^3b^4c^5e^5g^3h^2z - 36a^2b^4c^6e^3g^3h^2z \\
& + 9a^4b^6c^2d^5e^5k^3z + 9a^4b^3c^5e^3g^3h^2z - 180a^3b^4c^5d^5e^5j^3z \\
& + 18a^4b^2c^6d^3g^3h^2z - 9a^4b^5c^3d^5e^5j^3z + 18a^4b^2c^6d^5e^3h^2z \\
& + 9a^4b^4c^4d^5e^5h^3z + 36a^2b^4c^6d^5e^5g^3z - 9a^4b^3c^5d^5e^5g^3z \\
& - 18a^4b^2c^6d^5e^5f^3z + 27a^5b^2c^2h^2l^2m^2z - 27a^5b^2c^2j^2k^2l^2z \\
& + 27a^4b^3c^2h^2k^2m^2z + 27a^4b^3c^2g^2l^2m^2z + 27a^5b^2c^2g^2k^2m^2z \\
& - 27a^4b^3c^2h^2k^2l^2z - 27a^4b^3c^2g^2k^2m^2z - 135a^4b^2c^3e^2l^2m^2z \\
& + 27a^5b^2c^2e^2l^2m^2z + 27a^4b^3c^2h^2j^2l^2z - 27a^4b^2c^3h^2j^2l^2z \\
& + 27a^3b^4c^2e^2l^2m^2z - 270a^4b^3c^2f^2j^2m^2z - 270a^4b^2c^3f^2j^2m^2z \\
& + 162a^3b^4c^2f^2j^2m^2z - 108a^3b^3c^3f^2j^2m^2z - 27a^4b^2c^3h^2j^2k^2z \\
& - 27a^4b^2c^3g^2j^2l^2z + 27a^3b^3c^3e^2k^2m^2z + 27a^3b^3c^3d^2l^2m^2z \\
& + 27a^2b^5c^2f^2j^2m^2z + 162a^3b^3c^3d^2k^2m^2z - 27a^4b^3c^2d^2k^2m^2z \\
& - 27a^4b^2c^3g^2j^2k^2z + 27a^3b^3c^3g^2h^2m^2z - 27a^2b^5c^2d^2k^2m^2z \\
& + 162a^3b^2c^4d^2k^2l^2z - 108a^4b^2c^3g^3h^2l^2z - 27a^4b^2c^3e^2j^2l^2z \\
& + 27a^3b^4c^2g^3h^2l^2z + 27a^3b^2c^4e^2j^2l^2z - 27a^2b^4c^3d^2k^2l^2z \\
& - 162a^3b^3c^3f^2h^2l^2z + 162a^3b^3c^3e^2h^2m^2z - 135a^4b^2c^3e^5h^2m^2z \\
& + 135a^3b^2c^4f^2h^2l^2z + 27a^3b^4c^2e^5h^2m^2z - 27a^3b^3c^3g^2h^2k^2z \\
& - 27a^3b^2c^4e^2j^2k^2z - 27a^3b^2c^4d^2j^2l^2z + 27a^2b^5c^2f^2h^2l^2z \\
& - 27a^2b^5c^2e^2h^2m^2z - 27a^2b^4c^3f^2h^2l^2z - 27a^3b^2c^4g^2h^2j^2z \\
& + 27a^2b^3c^4e^2g^2m^2z - 27a^2b^3c^4d^2j^2k^2z + 27a^2b^3c^4d^2h^2m^2z \\
& + 351a^3b^2c^4d^2g^2m^2z - 189a^2b^4c^3d^2g^2m^2z + 162a^3b^3c^3d^2g^2m^2z
\end{aligned}$$

$$\begin{aligned}
& z - 162a^3b^2c^4e^2g^1l^2z + 135a^3b^3c^3d^2h^2l^2z + 135a^3b^2 \\
& *c^4f^2g^2k^2z - 27a^2b^5c^2d^2h^2l^2z - 27a^2b^5c^2d^2g^2m^2z \\
& - 27a^2b^4c^3f^2g^2k^2z + 27a^2b^4c^3e^2g^1l^2z + 27a^2b^3c^4f^2 \\
& g^2k^2z + 27a^2b^3c^4e^2h^2k^2z + 135a^3b^2c^4e^2f^2l^2z - 10 \\
& 8a^3b^2c^4e^2g^2k^2z + 108a^2b^2c^5d^2g^2l^2z + 27a^3b^2c^4e^2h^2 \\
& j^2z + 27a^2b^4c^3e^2g^2k^2z - 27a^2b^4c^3e^2f^2l^2z - 27a^2 \\
& b^3c^4e^2h^2j^2z - 27a^2b^2c^5e^2f^2l^2z - 27a^2b^2c^5e^2g^2 \\
& *j^2z - 27a^2b^2c^5d^2h^2j^2z + 162a^2b^3c^4d^2e^2l^2z - 135a^2b \\
& ^2c^5d^2g^2j^2z - 27a^2b^3c^4d^2g^2j^2z + 27a^2b^3c^4d^2f^2k^2z \\
& z - 162a^2b^2c^5d^2e^2k^2z - 27a^2b^2c^5e^2f^2h^2z - 72a^7c^2k \\
& *l^3m^3z + 9a^5b^4k^2l^3m^3z + 72a^6c^3j^2k^3m^3z - 72a^6c^3h^2k^3l^3 \\
& z - 72a^6c^3f^2l^3m^3z - 72a^5c^4h^3k^3l^3z - 72a^5c^4h^3j^3m^3z - 9 \\
& a^4b^5h^2k^3m^3z - 9a^4b^5g^2l^3m^3z - 144a^6c^3f^2j^3m^3z - 144a^5c \\
& ^4h^2j^3k^3z - 144a^5c^4g^2j^3l^3z - 144a^5c^4f^2j^3m^3z - 144a^4c^5 \\
& f^3j^3m^3z + 72a^6c^3e^2k^3m^3z + 72a^6c^3d^2l^3m^3z + 72a^4c^5f^3k^3 \\
& l^3z + 72a^6c^3g^2h^3m^3z + 18b^6c^3d^3j^3m^3z - 18a^3b^6f^2j^3m^3z - \\
& 9b^6c^3d^3k^3l^3z + 9a^3b^6e^2k^3m^3z + 9a^3b^6d^2l^3m^3z + 144a^5c \\
& ^4d^2k^3l^3z + 144a^3c^6d^3k^3l^3z - 72a^5c^4f^2j^3k^3z - 72a^3c^6d^3 \\
& j^3m^3z + 9a^3b^6g^2h^3m^3z - 72a^5c^4g^2h^3k^3z - 72a^4c^5g^3h^2k^3z \\
& - 72a^4c^5f^2g^3m^3z - 108a^5b^3c^3j^4m^4z + 63a^6b^2c^2j^3m^4z + 36 \\
& a^6b^2c^2k^3l^4z - 9a^5b^3c^2k^3l^4z - 144a^5c^4e^2g^1l^3z - 144a^3c \\
& ^6e^3g^1l^3z + 72a^5c^4d^2h^3l^3z + 72a^4c^5f^2h^3j^3z + 72a^4c^5e^2 \\
& h^3k^3z + 72a^4c^5d^2h^3l^3z + 72a^3c^6e^3h^2k^3z + 72a^3c^6e^3f^2m^3 \\
& z - 18b^5c^4d^3f^2m^3z + 9b^5c^4d^3h^2k^3z + 9b^5c^4d^3g^2l^3z - 9a^2 \\
& b^7e^2g^2m^3z - 9a^2b^7d^2h^3m^3z + 144a^4c^5e^2g^2j^3z + 144a^4c^5 \\
& *d^2h^3j^3z - 72a^5c^4d^2e^2m^3z - 72a^3c^6e^2f^3k^3z - 72a^3c^6d^2f^3 \\
& *l^3z + 144a^6b^2c^2f^2m^4z - 108a^5b^3c^2f^2m^4z - 72a^3c^6f^3g^2h^3z \\
& + 36a^5b^2c^3h^2k^4z - 36a^3b^2c^5f^4m^4z + 18b^4c^5d^3f^2j^3z - 9b \\
& ^4c^5d^3e^2k^3z + 9a^4b^4c^2g^1l^4z - 144a^4c^5d^2e^2k^3z - 144a^2c^7 \\
& d^3e^2k^3z + 72a^2c^7d^3f^2j^3z - 9b^4c^5d^3g^2h^3z + 72a^3c^6d^2g^3 \\
& *h^3z + 72a^2c^7d^3g^2h^3z - 72a^5b^2c^3d^2l^4z - 72a^4b^2c^4f^2j^4z + \\
& 45a^2b^2c^6d^4l^3z - 36a^2b^2c^6e^4k^3z - 9a^3b^5c^2d^1l^4z + 9a^2b^3 \\
& c^5e^4k^3z - 72a^3c^6d^2e^2h^3z - 72a^2c^7d^2e^3h^3z + 9b^3c^6d^3 \\
& *e^2g^2z + 72a^2c^7d^2e^2f^3z + 36a^3b^2c^5d^2h^4z - 9a^2b^2c^6e^4g^2z \\
& + 36a^2b^2c^7d^3f^2z + 90a^5b^2c^2j^3m^2z + 45a^5b^2c^2j^2l^3z \\
& z + 9a^4b^3c^2j^2k^3z - 9a^4b^3c^2h^3m^2z - 45a^4b^2c^3g^3m^2z + 9a^3b^4 \\
& c^2g^3m^2z + 198a^4b^3c^2f^2m^3z - 108a^3b^3c^3f^3m^2z + 18a^2b^5c^2f^3 \\
& m^2z - 117a^4b^2c^3f^2l^3z + 117a^3b^2c^4e^3m^2z + 63a^3b^4c^2f^2l^3z - \\
& 63a^2b^4c^3e^3m^2z - 171a^2b^3c^4d^3m^2z - 54a^3b^3c^3f^2k^3z + 9a^3b^2 \\
& c^4g^3j^2z + 9a^2b^5c^2f^2k^3z + 18a^3b^2c^4f^2j^3z + 18a^2b^3c^4 \\
& *f^3j^2z - 9a^2b^4c^3f^2j^3z - 45a^2b^2c^5e^3j^2z + 9a^2b^3 \\
& c^4f^2h^3z - 9a^2b^2c^5f^2g^3z + 9a^2b^8d^2e^2m^3z - 36a^2b^2c^7d^4 \\
& h^3z - 108a^6c^3h^2l^3m^2z + 108a^6c^3j^2k^2l^2z - 108a^6c^3g^2 \\
& k^2m^2z - 108a^6c^3e^2l^2m^2z + 108a^5c^4h^2j^2l^3z + 108a^5c^4
\end{aligned}$$

$$\begin{aligned}
& *e^{2*1*m^2*z} + 216*a^5*c^4*f^2*j*m^2*z + 108*a^5*c^4*h^2*j*k^2*z + 108*a^5*c^4*g^2*j*1^2*z + 108*a^5*c^4*g*j^2*k^2*z - 216*a^4*c^5*d^2*k^2*1*z + 108*a^5*c^4*e*j^2*1^2*z - 108*a^4*c^5*e^2*j^2*1*z - 9*a^6*b^2*c*1^3*m^2*z + 108*a^5*c^4*e*h^2*m^2*z - 108*a^4*c^5*f^2*h^2*1*z + 108*a^4*c^5*e^2*j*k^2*z + 108*a^4*c^5*d^2*j*1^2*z - 144*a^6*b*c^2*j^2*m^3*z + 108*a^4*c^5*g^2*h^2*j*z - 27*a^4*b^4*c*j^3*m^2*z + 27*a^4*b^3*c^2*j^4*m*z + 9*a^5*b^2*c^2*k^4*1*z + 216*a^4*c^5*e^2*g*1^2*z - 108*a^4*c^5*f^2*g*k^2*z - 108*a^4*c^5*d^2*g*m^2*z - 9*a^4*b^4*c*j^2*1^3*z - 108*a^4*c^5*e*h^2*j^2*z - 108*a^4*c^5*e*f^2*1^2*z + 108*a^3*c^6*e^2*f^2*1*z - 36*a^5*b*c^3*j^2*k^3*z + 36*a^5*b*c^3*h^3*m^2*z + 108*a^3*c^6*e^2*g^2*j*z + 108*a^3*c^6*d^2*h^2*j*z - 216*a^5*b*c^3*f^2*m^3*z + 144*a^4*b*c^4*f^3*m^2*z + 108*a^3*c^6*d^2*g*j^2*z - 72*a^3*b^5*c*f^2*m^3*z - 45*a^5*b^2*c^2*g*1^4*z - 9*a^4*b^3*c^2*h*k^4*z - 9*a^3*b^2*c^4*g^4*1*z + 9*a^2*b^3*c^4*f^4*m*z + 216*a^3*c^6*d^2*e*k^2*z - 9*a^2*b^6*c*f^2*1^3*z + 9*a*b^6*c^2*e^3*m^2*z + 108*a^3*c^6*e*f^2*h^2*z + 108*a^3*b*c^5*d^3*m^2*z + 108*a^2*c^7*d^2*e^2*j*z + 72*a^4*b*c^4*f^2*k^3*z + 72*a*b^5*c^3*d^3*m^2*z - 72*a^3*b*c^5*f^3*j^2*z + 54*a^4*b^3*c^2*d*1^4*z - 45*a^4*b^2*c^3*e*k^4*z + 18*a^3*b^3*c^3*f*j^4*z + 9*a^3*b^4*c^2*e*k^4*z - 9*a^2*b^2*c^5*f^4*j*z - 108*a^2*c^7*d^2*f^2*g*z + 9*a^3*b^2*c^4*g*h^4*z + 9*a*b^4*c^4*e^3*j^2*z - 72*a^2*b*c^6*d^3*j^2*z + 54*a*b^3*c^5*d^3*j^2*z - 36*a^3*b*c^5*f^2*h^3*z - 9*a^2*b^3*c^4*d*h^4*z + 9*a^2*b^2*c^5*e*g^4*z + 9*a*b^2*c^6*e^3*f^2*z + 36*a^7*c^2*1^3*m^2*z + 72*a^6*c^3*j^3*m^2*z - 36*a^6*c^3*j^2*1^3*z + 9*a^4*b^5*j^2*m^3*z + 36*a^5*c^4*g^3*m^2*z + 36*a^5*c^4*f^2*1^3*z - 36*a^4*c^5*e^3*m^2*z - 9*b^7*c^2*d^3*m^2*z + 9*a^2*b^7*f^2*m^3*z - 36*a^4*c^5*g^3*j^2*z + 72*a^4*c^5*f^2*j^3*z + 36*a^3*c^6*e^3*j^2*z - 9*b^5*c^4*d^3*j^2*z + 36*a^3*c^6*f^2*g^3*z - 9*a^4*b^2*c^3*j^5*z - 36*a^2*c^7*e^3*f^2*z - 9*b^3*c^6*d^3*f^2*z + 36*a^7*c^2*j*m^4*z - 36*a^6*c^3*k^4*1*z - 18*a^5*b^4*j*m^4*z + 36*a^6*c^3*g*1^4*z + 36*a^4*c^5*g^4*1*z + 18*a^4*b^5*f*m^4*z - 9*b^4*c^5*d^4*1*z + 36*a^5*c^4*e*k^4*z + 36*a^3*c^6*f^4*j*z - 36*a^2*c^7*d^4*1*z - 36*a^4*c^5*g*h^4*z + 9*b^3*c^6*d^4*h*z - 36*a^3*c^6*e*g^4*z + 36*a^2*c^7*e^4*g*z - 9*b^2*c^7*d^4*e*z - 36*a^7*b*c*m^5*z + 36*a*c^8*d^4*e*z + 9*a^6*b^3*m^5*z + 36*a^5*c^4*j^5*z + 9*a^4*b^3*c*g*h*j*k*1*m - 9*a^3*b^4*c*e*g*j*k*1*m - 9*a^3*b^4*c*d*h*j*k*1*m - 9*a^3*b^4*c*f*g*h*k*1*m + 36*a^4*b*c^3*d*e*j*k*1*m + 9*a^2*b^5*c*d*e*j*k*1*m + 36*a^4*b*c^3*e*f*h*j*1*m + 36*a^4*b*c^3*e*f*g*k*1*m + 36*a^4*b*c^3*d*f*h*k*1*m + 9*a^2*b^5*c*e*f*g*k*1*m + 9*a^2*b^5*c*d*f*h*k*1*m + 36*a^3*b*c^4*d*e*f*j*k*1 + 9*a*b^5*c^2*d*e*f*j*k*1 + 36*a^3*b*c^4*d*e*g*h*k*1 + 36*a^3*b*c^4*d*e*f*h*k*m + 36*a^3*b*c^4*d*e*f*g*1*m + 9*a*b^5*c^2*d*e*f*h*k*m + 9*a*b^5*c^2*d*e*f*g*1*m - 9*a*b^4*c^3*d*e*f*h*j*k - 9*a*b^4*c^3*d*e*f*g*j*1 - 9*a*b^4*c^3*d*e*f*g*h*m + 9*a*b^3*c^4*d*e*f*g*h*j - 9*a*b^6*c*d*e*f*k*1*m + 18*a^4*b^2*c^2*e*g*j*k*1*m + 18*a^4*b^2*c^2*d*h*j*k*1*m + 18*a^4*b^2*c^2*f*g*h*k*1*m - 36*a^3*b^3*c^2*d*e*j*k*1*m - 36*a^3*b^3*c^2*e*f*g*k*1*m - 36*a^3*b^3*c^2*d*f*h*k*1*m + 9*a^3*b^3*c^2*f*g*h*j*k*1 + 9*a^3*b^3*c^2*e*g*h*j*k*m + 9*a^3*b^3*c^2*d*g*h*j*1*m - 108*a^3*b^2*c^3*d*e*f*k*1*m + 54*a^2*b^4*c^2*d*e*f*k*1*m - 36*a^3*b^2*c^3*d*f*g*j*k*m + 18*a^3*b^2*c^3*e*f*g*j*k*1 + 18*a^3*b^2*c^3*d*f*h*j*k*1 + 18*a^3*b^2*c^3*d*e*h*j*k*m + 18*a^3*b^2*c^3*d*e*g*j*1*m - 9*a^2*b^4*c^2*e*f*g*j*k*1 - 9*a^2
\end{aligned}$$

$$\begin{aligned}
& *l^2 + 9*a*b^4*c^3*d*e*f*h^2*l + 9*a*b^3*c^4*d*e*f^2*g*m - 18*a^2*b*c^5*d*e*f^2*h*k - 18*a^2*b*c^5*d*e*f^2*g*l + 9*a*b^3*c^4*d*e*f^2*h*k + 9*a*b^3*c^4 \\
& *d*e*f^2*g*l + 27*a*b^2*c^5*d^2*e*f*g*k + 9*a*b^4*c^3*d*e*f*g*k^2 - 9*a*b^3 \\
& *c^4*d*e*f*g^2*k - 9*a*b^2*c^5*d^2*e*f*h*j - 9*a*b^2*c^5*d*e^2*f*g*j - 9*a \\
& *b^2*c^5*d*e*f^2*g*h + 72*a^4*c^4*d*f*g*j*k*m + 72*a^4*c^4*d*e*f*k*l*m + 9*a \\
& *b^6*c*d^2*g*k*l*m + 9*a*b^6*c*d*e*f*j*m^2 - 27*a^4*b^2*c^2*f^2*j*k*l*m - 9 \\
& *a^4*b^2*c^2*g^2*h*j*l*m + 36*a^3*b^3*c^2*e^2*h*k*l*m - 18*a^4*b^2*c^2*e*h^ \\
& 2*k*l*m - 9*a^4*b^2*c^2*g*h^2*j*k*m + 18*a^4*b^2*c^2*f*h*j^2*k*m + 18*a^4*b \\
& ^2*c^2*f*g*j^2*l*m - 18*a^4*b^2*c^2*e*h*j^2*l*m - 9*a^4*b^2*c^2*g*h*j^2*k*l \\
& - 9*a^3*b^3*c^2*f^2*h*j*k*m - 9*a^3*b^3*c^2*f^2*g*j*l*m - 63*a^4*b^2*c^2*d \\
& *g*k^2*l*m + 63*a^3*b^2*c^3*d^2*g*k*l*m - 45*a^2*b^4*c^2*d^2*g*k*l*m + 36*a \\
& ^4*b^2*c^2*e*f*k^2*l*m + 27*a^3*b^3*c^2*d*g^2*k*l*m - 9*a^4*b^2*c^2*f*h*j*k \\
& ^2*l - 9*a^4*b^2*c^2*e*h*j*k^2*m + 9*a^3*b^3*c^2*e*g^2*j*l*m - 9*a^3*b^2*c^ \\
& 3*d^2*h*j*l*m + 36*a^4*b^2*c^2*d*f*k*l^2*m + 27*a^4*b^2*c^2*e*h*j*k*l^2 - 2 \\
& 7*a^3*b^2*c^3*e^2*h*j*k*l - 18*a^3*b^2*c^3*e^2*f*j*l*m - 9*a^4*b^2*c^2*f*g* \\
& j*k*l^2 - 9*a^4*b^2*c^2*d*g*j*l^2*m + 9*a^3*b^3*c^2*f*g^2*h*l*m - 9*a^3*b^3 \\
& *c^2*e*h^2*j*k*l + 9*a^3*b^3*c^2*d*h^2*j*k*m - 9*a^3*b^2*c^3*e^2*g*j*k*m + \\
& 9*a^2*b^4*c^2*e^2*h*j*k*l + 72*a^4*b^2*c^2*d*g*j*k*m^2 + 36*a^4*b^2*c^2*d*e \\
& *k*l*m^2 + 27*a^4*b^2*c^2*e*g*h*l^2*m - 27*a^4*b^2*c^2*e*f*j*k*m^2 - 27*a^4 \\
& *b^2*c^2*d*f*j*l*m^2 - 27*a^3*b^2*c^3*e^2*g*h*l*m + 27*a^3*b^2*c^3*e*f^2*j* \\
& k*m + 27*a^3*b^2*c^3*d*f^2*j*l*m + 18*a^3*b^3*c^2*d*g*j^2*k*m + 9*a^3*b^3*c \\
& ^2*f*g*h^2*k*m + 9*a^3*b^3*c^2*e*g*j^2*k*l - 9*a^3*b^3*c^2*e*g*h^2*l*m - 9* \\
& a^3*b^3*c^2*e*f*j^2*k*m + 9*a^3*b^3*c^2*d*h*j^2*k*l - 9*a^3*b^3*c^2*d*f*j^2 \\
& *l*m + 9*a^2*b^4*c^2*e^2*g*h*l*m + 36*a^2*b^3*c^3*d^2*g*j*k*l - 27*a^4*b^2* \\
& c^2*f*g*h*j*m^2 + 27*a^3*b^2*c^3*f^2*g*h*j*m - 18*a^4*b^2*c^2*e*f*h*l*m^2 - \\
& 18*a^3*b^3*c^2*d*g*j*k^2*l - 18*a^3*b^2*c^3*d*g^2*j*k*l + 18*a^2*b^3*c^3*d \\
& ^2*f*j*k*m - 9*a^4*b^2*c^2*e*g*h*k*m^2 - 9*a^4*b^2*c^2*d*g*h*l*m^2 - 9*a^3* \\
& b^3*c^2*f*g*h*j^2*m + 9*a^3*b^3*c^2*e*f*j*k^2*l - 9*a^3*b^2*c^3*f^2*g*h*k*l \\
& + 9*a^2*b^4*c^2*d*g^2*j*k*l + 9*a^2*b^3*c^3*d^2*e*j*l*m + 36*a^3*b^2*c^3*e \\
& *f*g^2*l*m + 36*a^2*b^3*c^3*d^2*g*h*k*m - 18*a^3*b^3*c^2*d*g*h*k^2*m - 18*a \\
& ^3*b^2*c^3*d*g^2*h*k*m + 9*a^3*b^3*c^2*e*f*h*k^2*m + 9*a^3*b^3*c^2*d*f*j*k* \\
& l^2 - 9*a^3*b^2*c^3*f*g^2*h*j*l - 9*a^3*b^2*c^3*e*g^2*h*j*m - 9*a^2*b^4*c^2 \\
& *e*f*g^2*l*m + 9*a^2*b^4*c^2*d*g^2*h*k*m + 9*a^2*b^3*c^3*d^2*f*h*l*m + 9*a^ \\
& 2*b^3*c^3*d*e^2*j*k*m + 36*a^3*b^2*c^3*d*f*h^2*k*m + 36*a^3*b^2*c^3*d*e*j^2 \\
& *k*l + 18*a^3*b^3*c^2*d*g*h*k*l^2 + 18*a^3*b^2*c^3*e*g*h^2*j*l + 18*a^3*b^2 \\
& *c^3*e*f*h^2*k*l - 18*a^3*b^2*c^3*e*f*h^2*j*m - 18*a^3*b^2*c^3*d*g*h^2*k*l \\
& + 18*a^3*b^2*c^3*d*e*h^2*l*m + 18*a^2*b^3*c^3*e^2*f*h*j*m - 9*a^3*b^3*c^2*e \\
& *g*h*j*l^2 - 9*a^3*b^3*c^2*e*f*h*k*l^2 + 9*a^3*b^3*c^2*d*f*g*l^2*m - 9*a^3* \\
& b^3*c^2*d*e*h*l^2*m - 9*a^3*b^2*c^3*f*g*h^2*j*k - 9*a^3*b^2*c^3*d*g*h^2*j*m \\
& - 9*a^2*b^4*c^2*d*f*h^2*k*m - 9*a^2*b^4*c^2*d*e*j^2*k*l - 9*a^2*b^3*c^3*e^ \\
& 2*g*h*j*l - 9*a^2*b^3*c^3*e^2*f*h*k*l + 9*a^2*b^3*c^3*e^2*f*g*k*m - 9*a^2*b \\
& ^3*c^3*d*e^2*h*l*m + 36*a^3*b^3*c^2*e*f*g*j*m^2 + 36*a^3*b^3*c^2*d*f*h*j*m^ \\
& 2 + 18*a^3*b^3*c^2*d*f*g*k*m^2 - 18*a^3*b^2*c^3*e*f*g*j^2*m - 18*a^3*b^2*c^ \\
& 3*d*f*h*j^2*m - 18*a^2*b^3*c^3*e*f^2*g*j*m - 18*a^2*b^3*c^3*d*f^2*h*j*m + 9 \\
& *a^3*b^3*c^2*d*e*h*k*m^2 + 9*a^3*b^3*c^2*d*e*g*l*m^2 - 9*a^3*b^2*c^3*e*g*h*
\end{aligned}$$

$$\begin{aligned}
& j^2k - 9a^3b^2c^3d*gh*j^2*1 + 9a^2b^4c^2*ef*g*j^2*m + 9a^2b^4c^2*d*f*h*j^2*m + 9a^2b^3c^3*ef^2*g*k*1 + 9a^2b^3c^3*d*f^2*h*k*1 + 72 \\
& *a^2b^2c^4*d^2*f*g*j*m + 36a^2b^2c^4*d^2*ef*1*m + 27a^3b^2c^3*d*gh*j*k^2 + 27a^3b^2c^3*d*ef*g*k^2*1 + 27a^3b^2c^3*d*ef*g*k^2*m - 27a^2b^2c^4*d^2*g*h*j*k \\
& - 27a^2b^2c^4*d^2*f*g*k*1 - 27a^2b^2c^4*d^2*ef*g*k*m + 18a^2b^3c^3*d*f*g^2*j*m - 18a^2b^2c^4*d^2*ef*h*k*1 - 9a^3b^2c^3*ef*h*j*k^2 + 9a^2b^3c^3*ef*g^2*j*1 \\
& - 9a^2b^3c^3*d*g^2*h*j*k - 9a^2b^3c^3*d*f*g^2*k*1 - 9a^2b^3c^3*d*ef*g^2*k*m - 9a^2b^2c^4*d^2*f*h*j*1 - 9a^2b^2c^4*d^2*ef*h*j*m + 36a^2b^2c^4*d*ef*k*m \\
& - 27a^3b^2c^3*d*ef*h*j*1^2 + 27a^2b^2c^4*d*ef^2*h*j*1 - 18a^3b^2c^3*d*ef*g*k*1^2 - 9a^3b^2c^3*d*f*g*j*1^2 + 9a^2b^4c^2*d*ef*h*j*1^2 + 9a^2b^3c^3*ef*gh^2*h*m \\
& + 9a^2b^3c^3*d*f*h^2*j*k - 9a^2b^3c^3*d*ef*h^2*j*1 - 9a^2b^2c^4*ef^2*f*g*j*k - 9a^2b^2c^4*d*ef^2*g*j*m + 63a^3b^2c^3*d*ef*f*j*m^2 - 63a^2b^2c^4*d*ef^2*j*m \\
& - 45a^2b^4c^2*d*ef*j*m^2 + 36a^2b^2c^4*d*ef^2*k*1 - 27a^3b^2c^3*ef*gh*1^2 + 27a^2b^3c^3*d*ef*f*j^2*m + 27a^2b^2c^4*ef^2*f*g*h*1 + 9a^2b^4c^2*ef*gh*1^2 \\
& - 9a^2b^3c^3*ef*gh^2*1 + 9a^2b^3c^3*d*f*gh^2*m + 9a^2b^3c^3*d*ef*h*j^2*k + 9a^2b^3c^3*d*ef*g*j^2*1 + 18a^2b^2c^4*d*ef*g^2*j*k - 9a^3b^2c^3*d*ef*gh*m^2 - 9a^2b^3c^3*d*ef*g*j*k^2 \\
& - 9a^2b^2c^4*ef^2*g*h*k - 9a^2b^2c^4*d*f^2*g*h*1 + 18a^2b^2c^4*d*f*g^2*h*k - 18a^2b^2c^4*d*ef*g^2*h*1 - 9a^2b^3c^3*d*f*gh*k^2 - 9a^2b^2c^4*ef*f*g^2*h*j \\
& + 36a^2b^3c^3*d*ef*h*1^2 - 18a^2b^2c^4*d*ef*h^2*1 - 9a^2b^2c^4*d*f*gh^2*j - 9a^2b^2c^4*d*ef*gh*j^2 - 27a^2b^2c^4*d*ef*g*k^2 + 18a^2b^2c^4*d^2*f*h*k^2 - 9a^2b^3c^3*ef*f*g^2*k^2 \\
& - 9a^2b^2c^4*ef^2*f*h*j^2 - 9a^2b^2c^4*d*f^2*h^2*k + 45a^2b^3c^3*d*ef^2*m^2 + 36a^2b^2c^4*d^2*ef*g*1^2 + 9a^2b^3c^3*d*ef*g^2*1^2 + 9a^2b^2c^4*ef^2*g*j^2 + 9a^2b^2c^4*d*f^2*h*j^2 \\
& - 9a^2b^2c^4*d*ef^2*h*k^2 - 36a^2b^2c^4*d*ef^2*f*1^2 - 9a^2b^2c^4*d*f*g^2*j^2 - 12a^6*b*c*h*k*1^3*m + 3a*b^6*c*d*ef*1^3 - 12a*b*c^6*d*ef^3*f*h + 9a^5*b^2*c*h^2*k*1^2*m \\
& + 18a^5*b*c^2*g^2*k^2*1*m - 9a^5*b^2*c*h^2*j*1*m^2 + 9a^5*b*c^2*h^2*j^2*1*m - 9a^4*b^3*c*g^2*k^2*1*m - 3a^4*b^2*c^2*g^3*k*1*m + 18a^5*b*c^2*f^2*k*1*m^2 + 15a^3*b^3*c^2*f^3*k*1*m \\
& + 9a^5*b^2*c*h*j^2*k*m^2 + 9a^5*b^2*c*g*j^2*1*m^2 - 9a^5*b^2*c*f*k^2*1^2*m + 9a^5*b*c^2*h^2*j*k^2*m + 9a^5*b*c^2*g^2*j*1^2*m - 9a^4*b^3*c*f^2*k*1*m^2 + 36a^3*b^2c^3*ef^3*k*1*m \\
& - 27a^5*b*c^2*g^2*j*k*m^2 - 18a^5*b*c^2*h^2*j*k*1^2 - 18a^2b^4c^2*ef^3*k*1*m - 9a^5*b^2c*g*j*k^2*m^2 - 9a^5*b^2c*ef*k^2*1*m^2 + 9a^5*b*c^2*h*j^2*k^2*1 + 9a^5*b*c^2*g*j^2*k^2*m \\
& + 9a^4*b^3c*g^2*j*k*m^2 + 9a^3b^4c*ef^2*k*1^2*m + 3a^4*b^2c^2*h^3*j*k*1 - 5a^4*b^2c^3*d^2*k^2*1*m - 51a^2b^3c^3*d^3*k*1*m - 27a^4*b^2c^3*ef^2*j^2*1*m \\
& - 18a^5*b*c^2*g*h^2*1^2*m - 9a^5*b^2c*ef*j*1^2*m^2 - 9a^5*b^2c*d*k*1^2*m^2 + 9a^5*b*c^2*g^2*h*1*m^2 + 9a^5*b*c^2*g*j^2*k*1^2 + 9a^5*b*c^2*ef*j^2*1^2*m \\
& - 9a^3b^4c*ef^2*j*1*m^2 - 9a^2b^5c*d^2*k^2*1*m + 3a^4*b^2c^2*g*h^3*1*m - 3a^3b^3c^2*g^3*j*k*1 + 18a^5*b*c^2*ef*j^2*k*m^2 + 18a^5*b*c^2*d*j^2*1*m^2 + 18a^4*b^2c^3*f^2*j^2*k*1 \\
& + 9a^5*b*c^2*g*h^2*k*m^2 + 9a^5*b*c^2*f*h^2*1*m^2 + 9a^5*b*c^2*f*j*k^2*1^2 - 9a^4*b^3c*ef*j^2*k*m^2 - 9a^4*b^3c*d*j^2*1*m^2 + 9a^4*b^2c^2*f*j^3*k*1 + 9a^4*b^2c^2*ef*j^3*k*1
\end{aligned}$$

$$\begin{aligned}
& m + 9a^4b^2c^2d^2j^3l^3m + 9a^4b^2c^3f^2h^2l^3m + 9a^4b^2c^3e^2j^2k^2m + 9a^4b^2c^3d^2j^2l^2m - 3a^3b^3c^2g^3h^2k^2m - 3a^3b^2c^3f^3j^2k^2m + 3a^2b^4c^2f^3j^2k^2m + 45a^4b^2c^3d^2j^2k^2m^2 - 27a^5b^2c^2d^2j^2k^2m^2 + 18a^5b^2c^2g^2h^2j^2m^2 + 18a^4b^2c^3e^2j^2k^2m^2 + 15a^2b^3c^3e^3j^2k^2m^2 - 12a^3b^2c^3f^3h^2k^2m - 12a^3b^2c^3f^3g^2l^2m + 9a^5b^2c^2g^2h^2k^2l^2 - 9a^4b^3c^3g^2h^2j^2m^2 + 9a^4b^3c^3d^2j^2k^2m^2 + 9a^4b^2c^2g^2h^2j^3m + 9a^4b^2c^3g^2h^2k^2l^2 + 9a^4b^2c^3g^2h^2j^2m + 9a^2b^5c^2d^2j^2k^2m^2 + 3a^2b^4c^2f^3h^2k^2m + 3a^2b^4c^2f^3g^2l^2m + 36a^2b^2c^4d^3j^2k^2m + 18a^4b^2c^3e^2g^2l^2m + 15a^2b^3c^3e^3g^2l^2m + 12a^4b^2c^2d^2j^2k^3l^2 + 9a^5b^2c^2f^2g^2k^2m^2 + 9a^5b^2c^2e^2h^2k^2m^2 + 9a^4b^2c^3g^2h^2j^2l^2 + 9a^4b^2c^3f^2h^2k^2l^2 + 9a^4b^2c^3f^2g^2k^2m + 9a^4b^2c^3d^2h^2l^2m^2 - 9a^3b^3c^2e^2h^3k^2m + 6a^2b^3c^3e^3h^2k^2m + 45a^4b^2c^3e^2h^2j^2m^2 + 36a^2b^2c^4d^3h^2k^2m - 33a^3b^2c^3d^2g^3l^2m - 27a^4b^2c^3f^2h^2j^2l^2 - 27a^4b^2c^3e^2f^2l^2m^2 - 27a^4b^2c^3e^2h^2j^2m - 18a^4b^2c^3g^2h^2j^2k^2 - 18a^4b^2c^3f^2g^2k^2l^2 - 18a^4b^2c^3e^2g^2k^2m - 18a^3b^2c^4d^2g^2l^2m + 12a^4b^2c^2d^2h^2k^3m + 9a^5b^2c^2e^2f^2l^2m^2 + 9a^5b^2c^2d^2g^2l^2m^2 + 9a^4b^2c^3f^2g^2k^2l^2 + 9a^4b^2c^3e^2g^2k^2m^2 + 9a^4b^2c^3g^2h^2j^2k^2 + 9a^4b^2c^3f^2h^2j^2l^2 + 9a^4b^2c^3e^2f^2l^2m - 9a^3b^4c^2e^2h^2j^2m^2 + 9a^3b^2c^4e^2f^2l^2m + 9a^2b^5c^2e^2h^2j^2m^2 + 9a^2b^4c^2d^2g^3l^2m - 9a^2b^2c^4d^3g^2l^2m - 9a^2b^5c^2d^2g^2l^2m - 6a^4b^2c^2e^2h^2k^3l - 6a^3b^2c^3f^2g^3j^2m + 3a^4b^2c^2g^2h^2j^2k^3 + 3a^4b^2c^2f^2g^2k^3l + 3a^4b^2c^2e^2g^2k^3m + 3a^3b^2c^3g^3h^2j^2k + 3a^3b^2c^3f^2g^3k^2l + 3a^3b^2c^3e^2g^3k^2m - 27a^3b^2c^4d^2h^2k^2l + 18a^4b^2c^3e^2f^2k^2m^2 + 18a^4b^2c^3d^2f^2l^2m^2 + 9a^4b^2c^3f^2h^2j^2k^2 + 9a^4b^2c^3f^2g^2j^2l^2 + 9a^4b^2c^3e^2g^2k^2l^2 + 9a^4b^2c^3d^2h^2k^2l^2 + 9a^3b^4c^2e^2g^2j^2m^2 + 9a^3b^4c^2d^2h^2j^2m^2 - 9a^3b^3c^2e^2g^2j^3m - 9a^3b^3c^2d^2h^2j^3m + 9a^3b^2c^4e^2g^2k^2l + 9a^3b^2c^4e^2g^2j^2m + 9a^3b^2c^4d^2h^2j^2m - 3a^2b^3c^3f^3h^2j^2k - 3a^2b^3c^3f^3g^2j^2l - 3a^2b^3c^3e^2f^3k^2m - 3a^2b^3c^3d^2f^3l^2m + 45a^4b^2c^3d^2g^2j^2m^2 + 45a^3b^2c^4d^2g^2j^2m + 24a^4b^2c^2d^2g^2k^2l^3 + 24a^2b^2c^4e^3f^2j^2m + 18a^4b^2c^3f^2g^2h^2m^2 + 18a^4b^2c^3d^2h^2j^2l^2 + 18a^3b^2c^4e^2h^2j^2k - 12a^4b^2c^2e^2g^2j^2l^3 - 12a^4b^2c^2e^2f^2k^2l^3 - 12a^4b^2c^2d^2e^2l^3m - 12a^2b^2c^4e^3g^2j^2l - 12a^2b^2c^4e^3f^2k^2l - 12a^2b^2c^4d^2e^3l^2m + 9a^4b^2c^3f^2g^2j^2k^2 + 9a^4b^2c^3e^2h^2j^2k^2 + 9a^3b^2c^3e^2h^3j^2k + 9a^3b^2c^3d^2h^3j^2l + 9a^3b^2c^4f^2g^2j^2k + 9a^3b^2c^4d^2h^2j^2l + 9a^2b^5c^2d^2g^2j^2m^2 + 9a^2b^5c^2d^2g^2j^2m - 3a^4b^2c^2d^2h^2j^2l^3 - 3a^2b^3c^3f^3g^2h^2m - 3a^2b^2c^4e^3h^2j^2k + 18a^4b^2c^3f^2g^2h^2l^2 + 18a^3b^2c^4e^2g^2h^2m + 18a^3b^2c^4d^2h^2j^2k^2 + 18a^3b^2c^4d^2f^2k^2l + 18a^3b^2c^4d^2e^2k^2m + 9a^4b^2c^3e^2g^2h^2m^2 + 9a^4b^2c^3e^2f^2j^2l^2 + 9a^4b^2c^3d^2g^2j^2l^2 + 9a^3b^2c^3f^2g^2h^3l + 9a^3b^2c^3e^2g^2h^3m + 9a^3b^2c^4f^2g^2h^2l + 9a^3b^2c^4e^2g^2j^2k + 9a^3b^2c^4e^2f^2j^2l - 9a^2b^3c^3d^2g^3j^2l + 9a^2b^4c^3d^2g^2j^2l - 3a^4b^2c^2f^2g^2h^2l^3 - 3a^3b^3c^2e^2g^2j^2k^3 - 3a^3b^3c^2d^2h^2j^2k^3 - 3a^3b^3c^2d^2f^2k^3l -
\end{aligned}$$

$$\begin{aligned}
& 3a^3b^3c^2d^2ek^3m - 3a^2b^2c^4e^3g^2h^2m - 33a^3b^2c^3d^2e^2j^3m - 27a^4b^2c^3e^2f^2h^2m^2 - 27a^3b^2c^4d^2e^2k^2l^2 - 18a^4b^2c^3d^2e^2j^2m^2 - 18a^3b^2c^4e^2f^2j^2k - 18a^3b^2c^4d^2f^2j^2l - 9a^4b^2c^2d^2e^2j^2m^3 + 9a^4b^2c^3d^2g^2h^2m^2 + 9a^4b^2c^3d^2e^2k^2l^2 + 9a^3b^2c^4f^2g^2h^2k + 9a^3b^2c^4e^2f^2j^2k^2 + 9a^3b^2c^4d^2f^2j^2l^2 + 9a^3b^2c^4e^2f^2h^2m + 9a^3b^2c^4d^2e^2k^2l - 9a^2b^5c^2d^2e^2j^2m^2 + 9a^2b^4c^2d^2e^2j^3m - 9a^2b^3c^3d^2g^3h^2m + 9a^2b^2c^5d^2e^2k^2l + 9a^2b^2c^5d^2e^2j^2m + 9a^2b^4c^3d^2g^2h^2m - 6a^3b^2c^3d^2g^2j^3k - 3a^3b^3c^2d^2e^2f^2g^2h^2k^3 + 3a^3b^2c^3d^2e^2f^2j^3k + 3a^3b^2c^3d^2e^2f^2j^3l + 3a^2b^2c^4e^2f^3j^2k + 3a^2b^2c^4d^2f^3j^2l + 45a^3b^2c^4d^2g^2h^2l^2 + 36a^4b^2c^2d^2e^2f^2g^2m^3 + 36a^4b^2c^2d^2e^2f^2h^2m^3 - 27a^3b^2c^4e^2g^2h^2k^2 - 27a^3b^2c^4d^2g^2h^2l^2 - 18a^3b^2c^4f^2g^2h^2j^2 + 18a^3b^2c^4d^2e^2j^2l^2 + 15a^3b^3c^2d^2e^2j^2l^3 + 12a^2b^2c^4e^2f^3g^2m + 12a^2b^2c^4d^2f^3h^2m + 9a^3b^2c^4f^2g^2h^2j + 9a^3b^2c^4e^2g^2h^2k + 9a^3b^2c^4d^2f^2j^2k^2 + 9a^2b^5c^2d^2e^2f^2j^2k + 9a^2b^5c^2d^2e^2g^2h^2l^2 - 9a^2b^4c^3d^2g^2h^2l^2 - 6a^2b^2c^4e^2f^3h^2l + 3a^3b^2c^3d^2e^2f^2g^2h^2j^3 + 3a^2b^2c^4f^3g^2h^2j + 45a^3b^2c^4d^2e^2f^2g^2m^2 - 27a^2b^2c^5d^2e^2f^2g^2m + 18a^3b^2c^4e^2f^2g^2l^2 + 15a^3b^3c^2d^2e^2f^2g^2l^3 - 12a^3b^2c^3d^2e^2j^2k^3 + 9a^3b^2c^4d^2e^2h^2m^2 + 9a^3b^2c^4e^2g^2h^2j^2 + 9a^3b^2c^4e^2f^2h^2k^2 - 9a^2b^3c^3d^2e^2f^2h^3l + 9a^2b^2c^5d^2e^2f^2h^2l + 9a^2b^5c^2d^2e^2f^2g^2m^2 + 9a^2b^3c^4d^2e^2f^2g^2m + 6a^3b^3c^2d^2e^2f^2h^2l^3 + 3a^2b^4c^2d^2e^2j^2k^3 + 18a^3b^2c^4e^2f^2g^2k^2 + 18a^2b^2c^5d^2e^2g^2h^2j + 18a^2b^2c^5d^2e^2f^2g^2l + 18a^2b^2c^5d^2e^2g^2m - 12a^3b^2c^3d^2e^2f^2h^2k^3 + 9a^3b^2c^4e^2f^2h^2j^2 + 9a^3b^2c^4d^2f^2g^2l^2 + 9a^3b^2c^4d^2e^2g^2m^2 + 9a^3b^2c^4d^2g^2h^2j^2 + 9a^2b^2c^4e^2f^2g^3k + 9a^2b^2c^4d^2g^3h^2j + 9a^2b^2c^4d^2e^2f^2g^3l + 9a^2b^2c^4d^2e^2g^3m + 9a^2b^2c^5e^2f^2h^2j + 9a^2b^2c^5e^2f^2g^2k - 9a^2b^3c^4d^2e^2g^2h^2j - 9a^2b^3c^4d^2e^2f^2g^2l - 9a^2b^3c^4d^2e^2g^2m - 3a^3b^2c^3d^2e^2f^2g^2k^3 + 3a^2b^4c^2d^2e^2f^2g^2k^3 + 3a^2b^4c^2d^2e^2f^2h^2k^3 - 54a^3b^2c^4d^2e^2f^2m^2 - 51a^3b^3c^2d^2e^2f^2m^3 - 27a^3b^2c^4d^2e^2g^2l^2 + 9a^3b^2c^4d^2e^2h^2k^2 + 9a^2b^2c^5e^2f^2g^2j + 9a^2b^2c^5d^2e^2f^2h^2j + 9a^2b^2c^5d^2e^2h^2k + 9a^2b^2c^5d^2e^2g^2l - 9a^2b^5c^2d^2e^2f^2m^2 - 9a^2b^4c^3d^2e^2g^2l^2 - 9a^2b^2c^5d^2e^2g^2l - 9a^2b^2c^5d^2e^2f^2m - 3a^2b^3c^3e^2f^2g^2j^3 - 3a^2b^3c^3d^2e^2f^2h^2j^3 + 36a^3b^2c^3d^2e^2f^2l^3 - 27a^2b^2c^5d^2e^2f^2g^2j^2 - 18a^2b^4c^2d^2e^2f^2l^3 - 18a^2b^2c^5d^2e^2h^2j + 9a^2b^2c^5d^2e^2h^2j^2 + 9a^2b^2c^5d^2e^2f^2g^2j + 9a^2b^4c^3d^2e^2f^2l^2 + 9a^2b^3c^4d^2e^2f^2g^2j^2 - 9a^2b^2c^5d^2e^2f^2g^2j - 9a^2b^2c^5d^2e^2f^2l + 3a^2b^2c^4d^2e^2h^3j - 18a^2b^2c^5e^2f^2g^2h^2 + 18a^2b^2c^5d^2e^2f^2k^2 + 15a^2b^3c^3d^2e^2f^2k^3 + 9a^2b^2c^5e^2f^2g^2h^2 + 9a^2b^2c^5d^2e^2g^2j^2 - 9a^2b^3c^4d^2e^2f^2k^2 + 9a^2b^2c^5d^2e^2g^2j - 9a^2b^2c^5d^2e^2f^2k + 3a^2b^2c^4e^2f^2g^2h^3 + 18a^2b^2c^5d^2e^2f^2j^2 + 9a^2b^2c^5d^2e^2f^2g^2h^2 - 9a^2b^3c^4d^2e^2f^2j^2 + 9a^2b^2c^5d^2e^2f^2g^2h^2 - 3a^2b^2c^4d^2e^2f^2j^3 + 9a^2b^2c^5d^2e^2g^2h^2 - 9a^2b^2c^5d^2e^2g^2h^2 + 9a^2b^2c^5d^2e^2f^2h^2 - 36a^6c^2d^2e^2f^2j^2k^2l^2m^2 + 36a^5c^3d^2e^2f^2j^2k^2l^2m - 36a^5c^3d^2e^2f^2h^2j^2l^2m + 36a^5c^3d^2e^2h^2j^2l^2m - 18a^6b^2c^2j^2
\end{aligned}$$

$$\begin{aligned}
& *k^2 * l^2 * m^2 + 9 * a^6 * b^2 * c^2 * j^2 * k^2 * l^2 * m^2 + 3 * a^5 * b^2 * c^2 * j^3 * k^2 * l^2 * m^2 - 36 * a^5 * c^3 * f * g * j \\
& * k^2 * l^2 * m^2 - 36 * a^5 * c^3 * e * f * k^2 * l^2 * m^2 + 36 * a^5 * c^3 * d * g * k^2 * l^2 * m^2 - 36 * a^4 * c^4 * d^2 * g \\
& * k^2 * l^2 * m^2 - 36 * a^5 * c^3 * e * h * j * k^2 * l^2 * m^2 - 36 * a^5 * c^3 * e * f * j * l^2 * m^2 - 36 * a^5 * c^3 * d * f * k \\
& * l^2 * m^2 + 36 * a^4 * c^4 * e^2 * h * j * k^2 * l^2 * m^2 + 36 * a^4 * c^4 * e^2 * f * j * l^2 * m^2 + 9 * a^6 * b^2 * c^2 * h * k^2 * \\
& l^2 * m^2 - 3 * a^4 * b^3 * c^2 * h^3 * k^2 * l^2 * m^2 - 36 * a^5 * c^3 * e * g * h * l^2 * m^2 + 36 * a^5 * c^3 * e * f * j * k \\
& * m^2 - 36 * a^5 * c^3 * d * g * j * k * m^2 + 36 * a^5 * c^3 * d * f * j * l * m^2 - 36 * a^5 * c^3 * d * e * k * l \\
& * m^2 + 36 * a^4 * c^4 * e^2 * g * h * l * m^2 - 36 * a^4 * c^4 * e * f^2 * j * k * m^2 - 36 * a^4 * c^4 * d * f^2 * j \\
& * l * m^2 + 9 * a^6 * b^2 * c^2 * h * j * l^2 * m^2 + 9 * a^6 * b^2 * c^2 * g * k * l^2 * m^2 + 9 * a^5 * b^2 * c^2 * g * k^3 * l^2 * \\
& m^2 + 3 * a^3 * b^4 * c^2 * g^3 * k^2 * l^2 * m^2 + 36 * a^5 * c^3 * f * g * h * j * m^2 + 36 * a^5 * c^3 * e * f * h * l * m^2 \\
& - 36 * a^4 * c^4 * f^2 * g * h * j * m^2 - 36 * a^4 * c^4 * e * f^2 * h * l * m^2 - 24 * a^4 * b^2 * c^3 * f^3 * k^2 * l^2 * m^2 \\
& - 12 * a^5 * b^2 * c^2 * h * j^3 * k^2 * m^2 - 12 * a^5 * b^2 * c^2 * g * j^3 * l^2 * m^2 - 3 * a^2 * b^5 * c^2 * f^3 * k^2 * l^2 * m^2 \\
& - 36 * a^4 * c^4 * e * g^2 * h * k * l^2 * m^2 - 36 * a^4 * c^4 * e * f * g^2 * l^2 * m^2 + 12 * a^5 * b^2 * c^2 * e * k * l^3 * m^2 \\
& - 6 * a^5 * b^2 * c^2 * f * j * l^3 * m^2 + 3 * a^5 * b^2 * c^2 * h * j * k * l^3 * m^2 + 48 * a^3 * b^2 * c^4 * d^3 * k^2 * l^2 * m^2 + \\
& 36 * a^4 * c^4 * e * f * h^2 * j * m^2 + 36 * a^4 * c^4 * d * g * h^2 * k * l^2 * m^2 - 36 * a^4 * c^4 * d * f * h^2 * k * m^2 - \\
& 36 * a^4 * c^4 * d * e * j^2 * k * l^2 * m^2 + 24 * a^5 * b^2 * c^2 * d * k^3 * l^2 * m^2 + 21 * a * b^5 * c^2 * d^3 * k^2 * l^2 * m^2 - \\
& 12 * a^5 * b^2 * c^2 * g * j * k^3 * l^2 * m^2 - 9 * a^4 * b^3 * c^2 * d * k^3 * l^2 * m^2 + 6 * a^5 * b^2 * c^2 * f * j * k^3 * m^2 + 3 * \\
& a^5 * b^2 * c^2 * g * h * l^3 * m^2 - 36 * a^4 * c^4 * e * f * h * j^2 * l^2 * m^2 - 12 * a^5 * b^2 * c^2 * g * h * k^3 * m^2 - 3 * a^ \\
& ^5 * b^2 * c^2 * e * j * k * m^3 - 3 * a^5 * b^2 * c^2 * d * j * l * m^3 - 36 * a^4 * c^4 * d * g * h * j * k^2 * l^2 * m^2 - 36 * a^ \\
& ^4 * c^4 * d * f * g * k^2 * l^2 * m^2 - 36 * a^4 * c^4 * d * e * h * k^2 * l^2 * m^2 - 36 * a^4 * c^4 * d * e * g * k^2 * m^2 + 36 * a^ \\
& ^3 * c^5 * d^2 * g * h * j * k^2 * l^2 * m^2 + 36 * a^3 * c^5 * d^2 * f * g * k^2 * l^2 * m^2 - 36 * a^3 * c^5 * d^2 * f * g * j * m^2 + 36 * a^ \\
& ^3 * c^5 * d^2 * e * h * k^2 * l^2 * m^2 + 36 * a^3 * c^5 * d^2 * e * g * k^2 * m^2 - 36 * a^3 * c^5 * d^2 * e * f * l * m^2 + 24 * a^ \\
& ^5 * b^2 * c^2 * e * h * l * m^3 - 24 * a^3 * b^2 * c^4 * e^3 * j * k * l^2 * m^2 - 12 * a^5 * b^2 * c^2 * f * h * k * m^3 - 12 * a^ \\
& ^5 * b^2 * c^2 * f * g * l * m^3 - 3 * a^5 * b^2 * c^2 * g * h * j * m^3 - 3 * a^4 * b^3 * c^2 * e * j * k * l^3 - 3 * a * b^5 \\
& * c^2 * e^3 * j * k * l^2 * m^2 + 36 * a^4 * c^4 * d * e * h * j * l^2 * m^2 + 36 * a^4 * c^4 * d * e * g * k * l^2 * m^2 - 36 * a^3 * c^ \\
& ^5 * d * e^2 * h * j * l^2 * m^2 - 36 * a^3 * c^5 * d * e^2 * g * k * l^2 * m^2 - 36 * a^3 * c^5 * d * e^2 * f * k * m^2 + 24 * a^4 * b \\
& * c^3 * e * h^3 * k * m^2 - 24 * a^3 * b^2 * c^4 * e^3 * g * l * m^2 - 18 * a * b^4 * c^3 * d^3 * j * k * l^2 * m^2 - 12 * a^4 * b \\
& * c^3 * g * h^3 * j * l^2 * m^2 - 12 * a^4 * b^2 * c^3 * f * h^3 * k * l^2 * m^2 - 12 * a^4 * b^2 * c^3 * d * h^3 * l^2 * m^2 + 12 * a^3 * b \\
& * c^4 * e^3 * h * k * m^2 + 6 * a^4 * b^2 * c^3 * f * h^3 * j * m^2 - 3 * a^4 * b^3 * c^2 * g * h * j * l^3 - 3 * a^4 * b^3 * \\
& c^2 * f * h * k * l^3 - 3 * a^4 * b^3 * c^2 * e * g * l^3 * m^2 - 3 * a^4 * b^3 * c^2 * d * h * l^3 * m^2 - 3 * a * b^5 * c^2 * e \\
& ^3 * h * k * m^2 - 3 * a * b^5 * c^2 * e^3 * g * l * m^2 + 36 * a^4 * c^4 * e * f * g * h * l^2 * m^2 - 36 * a^4 * c^4 * d * e * \\
& f * j * m^2 - 36 * a^3 * c^5 * e^2 * f * g * h * l^2 * m^2 - 36 * a^3 * c^5 * d * f^2 * g * j * k^2 * l^2 * m^2 - 36 * a^3 * c^5 * d * e * \\
& f^2 * k * l^2 * m^2 + 36 * a^3 * c^5 * d * e * f^2 * j * m^2 - 18 * a * b^4 * c^3 * d^3 * h * k * m^2 - 9 * a * b^4 * c^3 * d^3 \\
& * g * l * m^2 + 30 * a^5 * b^2 * c^2 * d * g * k * m^3 - 30 * a^4 * b^3 * c^2 * d * g * k * m^3 - 24 * a^5 * b^2 * c^2 * e * f \\
& * k * m^3 - 24 * a^5 * b^2 * c^2 * d * f * l * m^3 + 24 * a^4 * b^2 * c^3 * e * g * j^3 * m^2 + 24 * a^4 * b^2 * c^3 * d * h \\
& * j^3 * m^2 + 15 * a^4 * b^3 * c^2 * e * f * k * m^3 + 15 * a^4 * b^3 * c^2 * d * f * l * m^3 + 12 * a^5 * b^2 * c^2 * e * g \\
& * j * m^3 + 12 * a^5 * b^2 * c^2 * d * h * j * m^3 - 12 * a^4 * b^2 * c^3 * f * h * j^3 * k^2 * l^2 * m^2 - 12 * a^4 * b^2 * c^3 * f * g \\
& * j^3 * l^2 * m^2 + 6 * a^4 * b^3 * c^2 * e * g * j * m^3 + 6 * a^4 * b^3 * c^2 * d * h * j * m^3 + 6 * a^4 * b^2 * c^3 * e * h * j^ \\
& ^3 * l^2 * m^2 + 36 * a^3 * c^5 * d * e * g^2 * h * l^2 * m^2 - 24 * a^5 * b^2 * c^2 * f * g * h * m^3 + 15 * a^4 * b^3 * c^2 * f * g * h * \\
& m^3 - 9 * a * b^6 * c^2 * d^2 * g * j * m^2 - 6 * a^3 * b^4 * c^2 * d * g * k * l^3 - 6 * a * b^4 * c^3 * e^3 * f * j * m^2 \\
& + 3 * a^3 * b^4 * c^2 * e * g * j * l^3 + 3 * a^3 * b^4 * c^2 * e * f * k * l^3 + 3 * a^3 * b^4 * c^2 * d * h * j * l^3 + \\
& 3 * a^3 * b^4 * c^2 * d * e * l^3 * m^2 + 3 * a * b^4 * c^3 * e^3 * h * j * k^2 * l^2 * m^2 + 3 * a * b^4 * c^3 * e^3 * g * j * l^2 * m^2 + 3 * a \\
& * b^4 * c^3 * e^3 * f * k * l^2 * m^2 + 3 * a * b^4 * c^3 * d * e^3 * l^2 * m^2 - 36 * a^3 * c^5 * d * e * g * h^2 * k^2 * l^2 * m^2 + 30 * a^ \\
& ^2 * b^2 * c^5 * d^3 * f * j * m^2 - 30 * a * b^3 * c^4 * d^3 * f * j * m^2 + 24 * a^3 * b^2 * c^4 * d * g^3 * j * l^2 * m^2 - 24 * a^ \\
& ^2 * b^2 * c^5 * d^3 * h * j * k^2 * l^2 * m^2 - 24 * a^2 * b^2 * c^5 * d^3 * f * k * l^2 * m^2 - 24 * a^2 * b^2 * c^5 * d^3 * e * k * m^2 + 15 * a * \\
& b^3 * c^4 * d^3 * h * j * k^2 * l^2 * m^2 + 15 * a * b^3 * c^4 * d^3 * f * k * l^2 * m^2 + 15 * a * b^3 * c^4 * d^3 * e * k * m^2 - 12 * a^
\end{aligned}$$

$$\begin{aligned}
& 3*b*c^4*e*g^3*j*k + 12*a^2*b*c^5*d^3*g*j*1 + 6*a*b^3*c^4*d^3*g*j*1 + 3*a^3*b^4*c*f*g*h*1^3 + 3*a*b^4*c^3*e^3*g*h*m + 24*a^3*b*c^4*d*g^3*h*m - 12*a^3*b*c^4*f*g^3*h*k + 12*a^2*b*c^5*d^3*g*h*m - 9*a^3*b^4*c*d*e*j*m^3 + 6*a^3*b*c^4*e*g^3*h*1 + 6*a*b^3*c^4*d^3*g*h*m + 36*a^3*c^5*d*e*f*g*k^2 - 36*a^2*c^6*d^2*e*f*g*k - 24*a^4*b*c^3*d*e*j*1^3 - 18*a^3*b^4*c*e*f*g*m^3 - 18*a^3*b^4*c*d*f*h*m^3 - 3*a^2*b^5*c*d*e*j*1^3 - 3*a*b^3*c^4*d*e^3*j*1 - 24*a^4*b*c^3*e*f*g*1^3 + 24*a^3*b*c^4*d*f*h^3*1 + 12*a^4*b*c^3*d*f*h*1^3 - 12*a^3*b*c^4*e*g*h^3*j - 12*a^3*b*c^4*e*f*h^3*k - 12*a^3*b*c^4*d*e*h^3*m - 12*a*b^2*c^5*d^3*e*j*k + 6*a^3*b*c^4*d*g*h^3*k - 3*a^2*b^5*c*e*f*g*1^3 - 3*a^2*b^5*c*d*f*h*1^3 - 3*a*b^3*c^4*e^3*g*h*j - 3*a*b^3*c^4*e^3*f*h*k - 3*a*b^3*c^4*e^3*f*g*1 - 3*a*b^3*c^4*d*e^3*h*m + 24*a*b^2*c^5*d^3*e*h*1 - 12*a*b^2*c^5*d^3*f*h*k - 3*a*b^2*c^5*d^3*g*h*j - 3*a*b^2*c^5*d^3*f*g*1 - 3*a*b^2*c^5*d^3*e*g*m + 48*a^4*b*c^3*d*e*f*m^3 + 24*a^2*b*c^5*d*e*f^3*m + 21*a^2*b^5*c*d*e*f*m^3 - 12*a^2*b*c^5*e*f^3*g*j - 12*a^2*b*c^5*d*f^3*h*j - 9*a*b^3*c^4*d*e*f^3*m + 6*a^2*b*c^5*d*f^3*g*k + 12*a*b^2*c^5*d*e^3*f*1 - 6*a*b^2*c^5*d*e^3*g*k + 3*a*b^2*c^5*d*e^3*h*j - 24*a^3*b*c^4*d*e*f*k^3 - 12*a^2*b*c^5*d*e*g^3*j - 3*a*b^5*c^2*d*e*f*k^3 + 3*a*b^2*c^5*e^3*f*g*h - 12*a^2*b*c^5*d*f*g^3*h + 9*a*b^2*c^5*d*e*f^3*j + 9*a*b*c^6*d^2*e^2*f*j + 3*a*b^4*c^3*d*e*f*j^3 + 9*a*b*c^6*d^2*e^2*g*h + 9*a*b*c^6*d^2*e*f^2*h - 3*a*b^3*c^4*d*e*f*h^3 - 18*a*b*c^6*d^2*e*f*g^2 + 9*a*b*c^6*d*e^2*f^2*g + 3*a*b^2*c^5*d*e*f*g^3 - 36*a^4*b^2*c^2*e^2*k*1^2*m - 9*a^4*b^2*c^2*g^2*j^2*k*m + 45*a^3*b^3*c^2*d^2*k^2*1*m + 36*a^4*b^2*c^2*e^2*j*1*m^2 + 9*a^4*b^2*c^2*g^2*j*k^2*1 + 9*a^3*b^3*c^2*e^2*j^2*1*m + 9*a^4*b^2*c^2*g^2*h*k^2*m - 9*a^4*b^2*c^2*f^2*h*1^2*m - 9*a^3*b^3*c^2*f^2*j^2*k*1 - 45*a^3*b^3*c^2*d^2*j*k*m^2 + 36*a^3*b^2*c^3*d^2*j^2*k*m + 18*a^4*b^2*c^2*f^2*h*k*m^2 + 18*a^4*b^2*c^2*f^2*g*1*m^2 - 9*a^4*b^2*c^2*g^2*h*k*1^2 - 9*a^4*b^2*c^2*f*h^2*k^2*m - 9*a^4*b^2*c^2*f*g^2*1^2*m - 9*a^4*b^2*c^2*e*j^2*k^2*1 - 9*a^4*b^2*c^2*d*j^2*k^2*m - 9*a^3*b^3*c^2*e^2*j*k*1^2 - 9*a^2*b^4*c^2*d^2*j^2*k*m - 36*a^3*b^2*c^3*d^2*j*k^2*1 - 27*a^3*b^2*c^3*e^2*h^2*k*m + 9*a^4*b^2*c^2*g*h^2*j*1^2 + 9*a^4*b^2*c^2*f*h^2*k*1^2 - 9*a^4*b^2*c^2*f*g^2*k*m^2 - 9*a^4*b^2*c^2*e*g^2*1*m^2 - 9*a^4*b^2*c^2*d*j^2*k*1^2 + 9*a^4*b^2*c^2*d*h^2*1^2*m - 9*a^3*b^3*c^2*e^2*g*1^2*m + 9*a^2*b^4*c^2*e^2*h^2*k*m + 9*a^2*b^4*c^2*d^2*j*k^2*1 - 45*a^3*b^3*c^2*e^2*h*j*m^2 + 36*a^4*b^2*c^2*e*h^2*j*m^2 + 36*a^3*b^2*c^3*e^2*h*j^2*m - 36*a^3*b^2*c^3*d^2*h*k^2*m + 36*a^2*b^3*c^3*d^2*g^2*1*m - 9*a^4*b^2*c^2*f*h*j^2*1^2 - 9*a^4*b^2*c^2*d*h^2*k*m^2 + 9*a^3*b^3*c^2*f^2*h*j*1^2 + 9*a^3*b^3*c^2*e^2*f*1*m^2 + 9*a^3*b^3*c^2*e*h^2*j^2*m - 9*a^3*b^2*c^3*f^2*h^2*j*1 - 9*a^2*b^4*c^2*e^2*h*j^2*m + 9*a^2*b^4*c^2*d^2*h*k^2*m + 36*a^3*b^2*c^3*d^2*h*k*1^2 - 27*a^4*b^2*c^2*e*g*j^2*m^2 - 27*a^4*b^2*c^2*d*h*j^2*m^2 - 9*a^4*b^2*c^2*d*h*k^2*1^2 - 9*a^3*b^3*c^2*e*f^2*k*m^2 - 9*a^3*b^3*c^2*d*f^2*1*m^2 + 9*a^3*b^2*c^3*f^2*h*j^2*k + 9*a^3*b^2*c^3*f^2*g*j^2*1 - 9*a^3*b^2*c^3*e^2*g*k^2*1 - 9*a^3*b^2*c^3*e^2*f*k^2*m - 9*a^3*b^2*c^3*d^2*f*1^2*m - 9*a^2*b^4*c^2*d^2*h*k*1^2 + 9*a^2*b^3*c^3*d^2*h^2*k*1 - 81*a^3*b^2*c^3*d^2*g*j*m^2 + 54*a^2*b^4*c^2*d^2*g*j*m^2 - 45*a^3*b^3*c^2*d*g^2*j*m^2 - 45*a^2*b^3*c^3*d^2*g*j^2*m + 36*a^3*b^2*c^3*d^2*f*k*m^2 + 36*a^3*b^2*c^3*d*g^2*j^2*m + 18*a^3*b^2*c^3*e^2*g*j*1^2 + 18*a^3*b^2*c^3*e^2*f*k*1^2 + 18*a^3*b^2*c^3*d*e^2*1^2*m - 9*a^4*b^2*c^2
\end{aligned}$$

$$\begin{aligned}
& *d*f*k^2*m^2 - 9*a^3*b^3*c^2*f^2*g*h*m^2 - 9*a^3*b^3*c^2*d*h^2*j*1^2 - 9*a^3*b^2*c^3*f^2*g*j*k^2 - 9*a^3*b^2*c^3*d^2*e*1*m^2 - 9*a^3*b^2*c^3*f*g^2*h^2 \\
& *m - 9*a^3*b^2*c^3*e*g^2*j^2*1 - 9*a^3*b^2*c^3*e*f^2*k^2*1 - 9*a^2*b^4*c^2*d^2*f*k*m^2 - 9*a^2*b^4*c^2*d*g^2*j^2*m - 9*a^2*b^3*c^3*e^2*h^2*j*k - 9*a^2 \\
& *b^2*c^4*d^2*f^2*k*m - 27*a^2*b^2*c^4*d^2*g^2*j*1 - 9*a^3*b^3*c^2*f*g*h^2*1^2 + 9*a^3*b^2*c^3*e*g^2*j*k^2 - 9*a^3*b^2*c^3*e*f^2*j*1^2 - 9*a^3*b^2*c^3*d \\
& *h^2*j^2*k - 9*a^3*b^2*c^3*d*f^2*k*1^2 - 9*a^3*b^2*c^3*d*e^2*k*m^2 - 9*a^2*b^3*c^3*e^2*g*h^2*m - 9*a^2*b^3*c^3*d^2*h*j*k^2 - 9*a^2*b^3*c^3*d^2*f*k^2* \\
& 1 - 9*a^2*b^3*c^3*d^2*e*k^2*m + 36*a^3*b^3*c^2*d*e*j^2*m^2 + 36*a^3*b^2*c^3 \\
& *e^2*f*h*m^2 - 27*a^2*b^2*c^4*d^2*g^2*h*m + 9*a^3*b^3*c^2*e*f*h^2*m^2 + 9*a^3*b^2*c^3*f*g^2*h*k^2 - 9*a^2*b^4*c^2*e^2*f*h*m^2 + 9*a^2*b^3*c^3*d^2*e*k* \\
& 1^2 - 9*a^2*b^2*c^4*e^2*f^2*h*m - 45*a^2*b^3*c^3*d^2*g*h*1^2 - 36*a^3*b^2*c^3 \\
& *e*f^2*g*m^2 + 36*a^3*b^2*c^3*d*g^2*h*1^2 - 36*a^3*b^2*c^3*d*f^2*h*m^2 + \\
& 36*a^2*b^2*c^4*d^2*g*h^2*1 - 9*a^3*b^2*c^3*e*g*h^2*k^2 + 9*a^2*b^4*c^2*e*f^2 \\
& *g*m^2 - 9*a^2*b^4*c^2*d*g^2*h*1^2 + 9*a^2*b^4*c^2*d*f^2*h*m^2 + 9*a^2*b^3 \\
& *c^3*e^2*g*h*k^2 + 9*a^2*b^3*c^3*d*g^2*h^2*1 - 9*a^2*b^3*c^3*d*e^2*j*1^2 - \\
& 9*a^2*b^2*c^4*e^2*g^2*h*k - 9*a^2*b^2*c^4*e^2*f*g^2*m - 9*a^2*b^2*c^4*d^2*f \\
& *j^2*k - 9*a^2*b^2*c^4*d^2*f*h^2*m - 9*a^2*b^2*c^4*d^2*e*j^2*1 - 45*a^2*b^3 \\
& *c^3*d^2*f*g*m^2 + 36*a^3*b^2*c^3*d*f*g^2*m^2 - 27*a^3*b^2*c^3*d*f*h^2*1^2 \\
& + 18*a^2*b^2*c^4*d^2*e*j*k^2 + 9*a^2*b^4*c^2*d*f*h^2*1^2 - 9*a^2*b^4*c^2*d* \\
& *f*g^2*m^2 - 9*a^2*b^3*c^3*e^2*f*g*1^2 + 9*a^2*b^2*c^4*e^2*g*h^2*j + 9*a^2*b \\
& ^2*c^4*e^2*f*h^2*k - 9*a^2*b^2*c^4*e*f^2*g^2*1 - 9*a^2*b^2*c^4*d*f^2*g^2*m \\
& - 9*a^2*b^2*c^4*d*e^2*j^2*k + 9*a^2*b^2*c^4*d*e^2*h^2*m + 18*a^4*b^2*c^2*f^2 \\
& *j^2*m^2 + 18*a^3*b^2*c^3*e^2*h^2*1^2 - 9*a^2*b^4*c^2*e^2*h^2*1^2 + 18*a^2 \\
& *b^2*c^4*d^2*g^2*k^2 + 12*a^6*c^2*j^3*k*1*m + 3*a^6*b^2*j*k*1*m^3 - 12*a^6* \\
& c^2*g*k^3*1*m - 12*a^5*c^3*g^3*k*1*m - 24*a^6*c^2*e*k*1^3*m - 24*a^4*c^4*e^3 \\
& *k*1*m + 12*a^6*c^2*h*j*k*1^3 + 12*a^6*c^2*f*j*1^3*m + 12*a^5*c^3*h^3*j*k* \\
& 1 - 3*a^5*b^3*h*j*k*m^3 - 3*a^5*b^3*g*j*1*m^3 - 3*a^5*b^3*f*k*1*m^3 + 12*a^6 \\
& *c^2*g*h*1^3*m + 12*a^5*c^3*g*h^3*1*m - 12*a^6*c^2*e*j*k*m^3 - 12*a^6*c^2*d \\
& *j*1*m^3 - 12*a^5*c^3*f*j^3*k*1 - 12*a^5*c^3*e*j^3*k*m - 12*a^5*c^3*d*j^3* \\
& 1*m - 12*a^4*c^4*f^3*j*k*1 + 24*a^6*c^2*f*h*k*m^3 + 24*a^6*c^2*f*g*1*m^3 + \\
& 24*a^4*c^4*f^3*h*k*m + 24*a^4*c^4*f^3*g*1*m - 12*a^6*c^2*g*h*j*m^3 - 12*a^6 \\
& *c^2*e*h*1*m^3 - 12*a^5*c^3*g*h*j^3*m + 3*b^6*c^2*d^3*j*k*1 + 3*a^4*b^4*e*j \\
& *k*m^3 + 3*a^4*b^4*d*j*1*m^3 - 24*a^5*c^3*d*j*k^3*1 - 24*a^3*c^5*d^3*j*k*1 \\
& - 6*a^4*b^4*e*h*1*m^3 + 3*b^6*c^2*d^3*h*k*m + 3*b^6*c^2*d^3*g*1*m + 3*a^6*b \\
& *c*j^2*1^3*m + 3*a^4*b^4*g*h*j*m^3 + 3*a^4*b^4*f*h*k*m^3 + 3*a^4*b^4*f*g*1* \\
& m^3 - 24*a^5*c^3*d*h*k^3*m - 24*a^3*c^5*d^3*h*k*m + 12*a^5*c^3*g*h*j*k^3 + \\
& 12*a^5*c^3*f*g*k^3*1 + 12*a^5*c^3*e*h*k^3*1 + 12*a^5*c^3*e*g*k^3*m + 12*a^4 \\
& *c^4*g^3*h*j*k + 12*a^4*c^4*f*g^3*k*1 + 12*a^4*c^4*f*g^3*j*m + 12*a^4*c^4*e \\
& *g^3*k*m + 12*a^4*c^4*d*g^3*1*m + 12*a^3*c^5*d^3*g*1*m + 3*a^6*b*c*j*k^3*m^2 \\
& - 9*a^6*b*c*h^2*1*m^3 - 3*a^5*b*c^2*j^4*k*1 + 24*a^5*c^3*e*g*j*1^3 + 24*a^5 \\
& *c^3*e*f*k*1^3 + 24*a^5*c^3*d*e*1^3*m + 24*a^3*c^5*e^3*g*j*1 + 24*a^3*c^5 \\
& *e^3*f*k*1 + 24*a^3*c^5*d*e^3*1*m - 12*a^5*c^3*d*h*j*1^3 - 12*a^5*c^3*d*g*k \\
& *1^3 - 12*a^4*c^4*e*h^3*j*k - 12*a^4*c^4*d*h^3*j*1 - 12*a^3*c^5*e^3*h*j*k - \\
& 12*a^3*c^5*e^3*f*j*m + 9*a^4*b*c^3*g^4*1*m + 6*b^5*c^3*d^3*f*j*m + 6*a^3*b
\end{aligned}$$

$$\begin{aligned}
&^5d^*g^*k^*m^3 - 3b^5c^3d^3h^*j^*k - 3b^5c^3d^3g^*j^*l - 3b^5c^3d^3f^* \\
&k^*l - 3b^5c^3d^3e^*k^*m - 3a^3b^5e^*g^*j^*m^3 - 3a^3b^5e^*f^*k^*m^3 - 3a \\
&^3b^5d^*h^*j^*m^3 - 3a^3b^5d^*f^*l^*m^3 - 12a^5c^3f^*g^*h^*l^3 - 12a^4c^4 \\
&f^*g^*h^3*l - 12a^4c^4e^*g^*h^3*m - 12a^3c^5e^3g^*h^*m - 9a^6b^*c^*g^*k^2*m \\
&^3 - 3b^5c^3d^3g^*h^*m + 3a^6b^*c^*f^*l^3*m^2 - 3a^3b^5f^*g^*h^*m^3 + 12a \\
&^5c^3d^*e^*j^*m^3 + 12a^4c^4e^*f^*j^3*k + 12a^4c^4d^*g^*j^3*k + 12a^4c^4 \\
&*d^*f^*j^3*l + 12a^4c^4d^*e^*j^3*m + 12a^3c^5e^*f^3*j^*k + 12a^3c^5d^*f^3 \\
&*j^*l - 9a^6b^*c^*e^*l^2*m^3 - 24a^5c^3e^*f^*g^*m^3 - 24a^5c^3d^*f^*h^*m^3 - \\
&24a^3c^5e^*f^3*g^*m - 24a^3c^5d^*f^3*h^*m - 15a^2b^*c^5d^4*l^*m + 15a*b \\
&^3c^4d^4*l^*m + 12a^4c^4f^*g^*h^*j^3 + 12a^3c^5f^3g^*h^*j + 12a^3c^5e \\
&*f^3h^*l + 9a^3b^*c^4f^4*k^*l - 9a^3b^*c^4f^4*j^*m + 3b^4c^4d^3e^*j^*k \\
&+ 3a^5b^2c^*g^*j^*l^4 + 3a^5b^2c^*f^*k^*l^4 + 3a^5b^2c^*d^*l^4*m - 3a^5b \\
&*c^2h^*j^*k^4 - 3a^5b^*c^2f^*k^4*l - 3a^5b^*c^2e^*k^4*m - 3a^4b^*c^3h^4* \\
&j^*k + 3a^2b^6d^*e^*j^*m^3 + 3a*b^4c^3e^4k^*m + 24a^4c^4d^*e^*j^*k^3 + 24 \\
&a^2c^6d^3e^*j^*k - 6b^4c^4d^3e^*h^*l + 3b^4c^4d^3g^*h^*j + 3b^4c^4d^3 \\
&d^3f^*h^*k + 3b^4c^4d^3f^*g^*l + 3b^4c^4d^3e^*g^*m - 3a^4b^*c^3g^*h^4*m \\
&+ 3a^2b^6e^*f^*g^*m^3 + 3a^2b^6d^*f^*h^*m^3 - 3a*b^6c^*e^3j^*m^2 + 24a^4 \\
&*c^4d^*f^*h^*k^3 + 24a^2c^6d^3f^*h^*k - 12a^4c^4e^*f^*g^*k^3 - 12a^3c^5e \\
&*f^*g^3*k - 12a^3c^5d^*g^3h^*j - 12a^3c^5d^*f^*g^3*l - 12a^3c^5d^*e^*g^3 \\
&*m - 12a^2c^6d^3g^*h^*j - 12a^2c^6d^3f^*g^*l - 12a^2c^6d^3e^*h^*l - 1 \\
&2a^2c^6d^3e^*g^*m - 12a*b^2c^5d^4*j^*l + 9a^5b^*c^2d^*j^*l^4 + 9a^2b^* \\
&c^5e^4j^*k - 3a^4b^3c^*d^*j^*l^4 - 3a^4b^*c^3e^*j^4*k - 3a^4b^*c^3d^*j^4 \\
&*l - 3a*b^3c^4e^4*j^*k - 24a^4c^4d^*e^*f^*l^3 - 24a^2c^6d^*e^3f^*l - 12 \\
&a^5b^2c^*e^*g^*m^4 - 12a^5b^2c^*d^*h^*m^4 + 12a^3c^5d^*e^*h^3*j + 12a^2c \\
&^6d^*e^3h^*j + 12a^2c^6d^*e^3g^*k - 12a*b^2c^5d^4h^*m + 9a^5b^*c^2f^* \\
&g^*l^4 - 9a^5b^*c^2e^*h^*l^4 - 9a^2b^*c^5e^4h^*l + 9a^2b^*c^5e^4g^*m + 6 \\
&a^4b^3c^*e^*h^*l^4 + 6a*b^3c^4e^4h^*l - 3b^3c^5d^3e^*g^*j - 3b^3c^5d^3 \\
&d^3e^*f^*k - 3a^4b^3c^*f^*g^*l^4 - 3a^4b^*c^3g^*h^*j^4 - 3a^3b^*c^4g^4h^*j \\
&- 3a^3b^*c^4f^*g^4*l - 3a^3b^*c^4e^*g^4*m - 3a*b^3c^4e^4g^*m + 12a^3 \\
&*c^5e^*f^*g^*h^3 + 12a^2c^6e^3f^*g^*h - 3b^3c^5d^3f^*g^*h - 12a^3c^5d^* \\
&e^*f^*j^3 - 12a^2c^6d^*e^*f^3*j - 3a*b^6c^*d^2g^*l^3 - 15a^5b^*c^2d^*e^*m^4 \\
&+ 15a^4b^3c^*d^*e^*m^4 + 9a^4b^*c^3e^*f^*k^4 - 9a^4b^*c^3d^*g^*k^4 + 3a^3 \\
&*b^4c^*d^*f^*l^4 - 3a^3b^*c^4d^*h^4*j - 3a^2b^*c^5e^*f^4*k - 3a^2b^*c^5d^* \\
&f^4*l + 3a*b^2c^5e^4g^*j + 3a*b^2c^5e^4f^*k + 3a*b^2c^5d^*e^4*m - 9 \\
&a*b^*c^6d^3e^2*l + 3b^2c^6d^3e^*f^*g - 3a^3b^*c^4f^*g^*h^4 - 3a^2b^*c^ \\
&5f^4g^*h + 12a^2c^6d^*e^*f^*g^3 - 9a*b^*c^6d^3f^2*j + 3a*b^*c^6d^2e^3* \\
&k + 9a^3b^*c^4d^*e^*j^4 - 3a^2b^*c^5e^*f^*g^4 - 9a*b^*c^6d^3e^*h^2 + 3a*b \\
&*c^6d^2f^3*g + 3a*b^*c^6d^*e^3g^2 - 3a^4b^2c^2h^3j^2*m + 12a^4b^2 \\
&*c^2g^3j^*m^2 - 3a^4b^2c^2f^2k^3*m + 3a^3b^3c^2g^3j^2*m - 9a^3b \\
&^4c^*f^2j^2*m^2 + 9a^3b^3c^2f^2j^3*m - 6a^3b^3c^2f^3j^*m^2 - 6a \\
&^3b^2c^3f^3j^2*m - 3a^2b^4c^2f^3j^2*m - 27a^4b^2c^2d^2k^*m^3 - \\
&27a^3b^2c^3e^3j^*m^2 + 18a^2b^4c^2e^3j^*m^2 - 15a^2b^3c^3e^3j \\
&^2*m + 12a^4b^2c^2f^2j^*l^3 + 3a^3b^3c^2e^2k^3*l + 42a^2b^3c^3d^3 \\
&d^3j^*m^2 - 27a^2b^2c^4d^3j^2*m - 15a^3b^3c^2d^2k^*l^3 - 3a^4b^2 \\
&*c^2f^*j^2k^3 - 3a^4b^2c^2f^*h^3*m^2 + 3a^3b^3c^2g^3h^*l^2 + 3a^3*
\end{aligned}$$

$$\begin{aligned}
& b^3c^2f^2jk^3 - 3a^3b^2c^3g^3h^2l - 3a^3b^2c^3e^2j^3l - 27a^4b^2c^2e^2hm^3 + 12a^3b^2c^3f^3h^2l + 3a^3b^3c^2fg^3m^2 \\
& - 3a^2b^4c^2f^3h^2l + 3a^2b^3c^3f^3h^2l + 9a^3b^3c^2e^2h^3l^2 + 9a^2b^3c^3e^2h^3l - 6a^4b^2c^2e^2h^2l^3 - 6a^3b^3c^2e^2h^3l^3 \\
& - 6a^2b^3c^3e^3h^2l^2 - 6a^2b^2c^4e^3h^2l + 3a^2b^3c^3d^2j^3k + 42a^3b^3c^2d^2g^3m^3 - 27a^4b^2c^2d^2g^2m^3 - 27a^2b^2c^4d^3h^2l^2 \\
& - 15a^2b^3c^3e^3f^3m^2 + 12a^3b^2c^3e^2hk^3 + 3a^3b^3c^2e^2h^2k^3 - 3a^3b^2c^3e^2g^3l^2 - 3a^2b^4c^2e^2hk^3 + 3a^2b^3c^3f^3g^3k^2 \\
& - 3a^2b^2c^4f^3g^2k - 27a^3b^2c^3d^2g^3l^3 - 27a^2b^2c^4d^3f^3m^2 + 18a^2b^4c^2d^2g^3l^3 - 15a^3b^3c^2d^2g^2l^3 \\
& + 12a^2b^2c^4e^3g^3k^2 - 3a^3b^2c^3e^2h^2j^3 + 3a^2b^3c^3e^2hj^3 + 3a^2b^3c^3ef^3l^2 - 3a^2b^2c^4d^2h^3k + 9a^2b^3c^3d^2g^3k^2 \\
& - 9ab^4c^3d^2g^2k^2 - 6a^3b^2c^3d^2g^2k^3 - 6a^2b^3c^3d^2g^3k^3 - 3a^2b^4c^2d^2g^2k^3 + 12a^2b^2c^4d^2g^3j^3 + 3a^2b^3c^3d^2g^2j^3 \\
& - 3a^2b^2c^4d^2f^3k^2 - 3a^2b^2c^4d^2g^2h^3 + 12a^7c^jkk^1m^3 - 3b^7c^d^3kk^1m - 3a^6b^c^k^4l^1m - 3a^6b^c^jkk^1l^4 \\
& - 3a^6b^c^g^1l^4m - 9a^6b^c^f^j^m^4 + 9a^6b^c^e^k^m^4 + 9a^6b^c^d^1m^4 + 9a^6b^c^g^h^m^4 - 3a^6b^7d^e^f^m^3 + 9a^6b^c^6d^4h^j - 9a^6b^c^6d^4g^k \\
& + 9a^6b^c^6d^4f^1 + 9a^6b^c^6d^4e^m + 12a^6c^7d^3e^f^g - 3a^6b^c^6d^4e^4j - 3a^6b^c^6e^4f^g - 3a^6b^c^6d^4e^f^4 + 18a^6c^2h^2j^1m^2 \\
& - 18a^6c^2h^2j^2l^2m + 18a^6c^2f^k^2l^2m + 36a^5c^3e^2k^1l^2m + 18a^6c^2g^jk^2m^2 + 18a^6c^2e^k^2l^1m^2 + 18a^5c^3g^2j^2k^1m \\
& + 18a^6c^2e^j^1l^2m^2 + 18a^6c^2d^kk^1l^2m^2 - 18a^5c^3e^2j^1m^2 - 18a^6c^2f^h^1l^2m^2 + 18a^5c^3f^2h^1l^2m - 36a^5c^3f^2h^kk^1m^2 \\
& - 36a^5c^3f^2g^1m^2 + 18a^5c^3g^2h^k^1l^2 - 18a^5c^3g^2h^2k^2l + 18a^5c^3f^2h^2k^2m + 18a^5c^3f^2g^2l^2m + 18a^5c^3e^2j^2k^2l \\
& + 18a^5c^3d^j^2k^2m - 18a^4c^4d^2j^2k^1m + 36a^4c^4d^2j^k^2l + 18a^5c^3f^2g^2k^1m^2 + 18a^5c^3e^2g^2l^1m^2 + 18a^5c^3d^j^2k^1l^2 \\
& - 18a^4c^4f^2g^2k^1m + 36a^4c^4d^2h^k^2m + 18a^5c^3f^2h^j^2l^2 - 18a^5c^3e^2h^2j^2m + 18a^5c^3d^h^2k^1m^2 + 18a^4c^4f^2h^2j^1 \\
& - 18a^4c^4e^2h^2j^2m - 18a^5c^3e^2g^k^2l^2 + 18a^5c^3d^h^k^2l^2 + 18a^4c^4e^2g^k^2l + 18a^4c^4e^2f^k^2m - 18a^4c^4d^2h^kk^1l^2 \\
& + 18a^4c^4d^2f^1l^2m - 36a^4c^4e^2g^j^1l^2 - 36a^4c^4e^2f^k^1l^2 - 36a^4c^4d^2e^2l^2m + 18a^5c^3d^f^k^2m^2 + 18a^4c^4f^2g^jk^2 \\
& + 18a^4c^4d^2g^j^m^2 - 18a^4c^4d^2f^k^1m^2 + 18a^4c^4d^2e^1m^2 - 18a^4c^4f^2g^2j^2k + 18a^4c^4f^2g^2h^2m + 18a^4c^4e^2g^2j^2l \\
& + 18a^4c^4e^2f^2k^2l - 18a^4c^4d^2g^2j^2m - 18a^4c^4d^2f^2k^2m + 18a^3c^5d^2f^2k^1m + 3a^4b^2c^2h^4k^1m - 3a^3b^3c^2g^4l^1m \\
& + 18a^4c^4e^2f^2j^1l^2 + 18a^4c^4d^2h^2j^2k + 18a^4c^4d^2f^2k^1l^2 + 18a^4c^4d^2e^2k^1m^2 - 18a^3c^5e^2f^2j^1l + 12a^5b^2c^2g^2k^1m^3 \\
& - 9a^5b^c^2h^3j^1m^2 - 9a^5b^c^2f^2l^3m + 3a^5b^c^2h^2k^3l + 3a^4b^3c^2h^3j^1m^2 + 3a^4b^3c^2f^2l^3m - 18a^4c^4e^2f^2h^1m^2 \\
& + 18a^3c^5e^2f^2h^1m + 15a^5b^c^2e^2l^1m^3 - 15a^4b^3c^2e^2l^1m^3 - 9a^5b^c^2g^2k^1l^3 - 9a^4b^3c^3g^3j^2m - 3a^5b^2c^2g^3k^2l^3 \\
& + 3a^5b^c^2h^2j^3l^2 + 3a^4b^3c^2g^2k^1l^3 - 3a^3b^4c^2g^3j^1m^2 + 3
\end{aligned}$$

$$\begin{aligned}
& 6a^4c^4ef^2gm^2 + 36a^4c^4d^2f^2hm^2 + 18a^4c^4e^2gh^2k^2 - 18a^4c^4d^2g^2h^2k^2 - 18a^4c^4d^2f^2j^2k^2 + 18a^3c^5e^2g^2hk^2 + 18a^3c^5e^2f^2g^2m - 18a^3c^5d^2g^2hk^2 + 18a^3c^5d^2f^2j^2k^2 + 18a^3c^5d^2f^2h^2m + 18a^3c^5d^2e^2j^2k^2 - 12a^2b^2c^4e^4k^2m + 9a^4b^3c^2f^2j^3m^2 - 9a^4b^2c^2f^2j^4m - 6a^5b^2c^2f^2j^2m^3 + 6a^5b^2c^2f^2j^3m^3 - 6a^5b^2c^2f^2j^3m^2 - 6a^4b^3c^2f^2j^3m^3 + 6a^4b^3c^3f^3j^3m^2 - 6a^4b^3c^3f^2j^3m^3 + 6a^2b^3c^3f^4j^3m + 3a^3b^2c^3g^4j^3k^2 + 3a^2b^5c^3f^3j^3m^2 - 3a^2b^3c^3f^4k^2k^2 - 36a^3c^5d^2e^2j^2k^2 - 18a^4c^4d^2f^2g^2m^2 + 18a^3c^5e^2f^2g^2k^2 + 18a^3c^5d^2f^2g^2m + 18a^3c^5d^2e^2j^2k^2 + 18a^3b^4c^2d^2k^2m^3 + 15a^3b^4c^4e^3j^2m + 12a^5b^2c^2d^2k^2m^3 - 9a^5b^2c^2f^2j^2k^2 - 9a^4b^3c^3e^2k^3 + 3a^5b^2c^2e^2k^3 + 3a^4b^3c^3f^2j^2k^3 + 3a^4b^3c^3g^2j^3k - 3a^3b^4c^2f^2j^2k^3 + 3a^3b^2c^3g^4hk^2 + 3a^2b^5c^2e^3j^2m - 36a^3c^5d^2f^2hk^2 - 21a^3b^3c^4d^3j^2m^2 - 21a^2b^5c^2d^3j^2m^2 + 18a^3c^5e^2f^2hk^2 - 18a^3c^5e^2f^2h^2j^2 + 18a^3c^5d^2f^2h^2k^2 + 18a^2b^4c^3d^3j^2m + 15a^4b^3c^3d^2k^2k^2 - 9a^5b^2c^2d^2k^2k^2 - 9a^4b^3c^3g^3hk^2 - 9a^4b^3c^3f^2j^2k^3 + 3a^4b^3c^3d^2k^2k^2 + 3a^2b^5c^2d^2k^2k^2 - 18a^3c^5d^2e^2g^2k^2 + 18a^3c^5d^2e^2hk^2 + 18a^2c^6d^2e^2g^2k^2 + 18a^2c^6d^2e^2f^2m + 15a^5b^2c^2e^2h^2m^3 - 15a^4b^3c^2e^2h^2m^3 - 9a^4b^3c^3f^2g^3m^2 - 9a^3b^3c^4f^3h^2k^2 + 3a^4b^2c^2e^2j^2k^4 + 3a^4b^3c^3g^3hk^2 + 3a^3b^3c^4f^2g^3m + 36a^3c^5d^2e^2f^2k^2 + 18a^3c^5d^2f^2g^2j^2 + 18a^2c^6d^2f^2g^2j^2 + 18a^2c^6d^2e^2f^2k^2 - 9a^3b^2c^3e^2h^4k^2 - 9a^3b^3c^4d^2j^3k^2 + 6a^4b^3c^3e^2hk^2k^2 - 6a^4b^3c^3e^2h^3k^2 + 6a^3b^3c^4e^3hk^2 - 6a^3b^3c^4e^2hk^2k^2 + 3a^4b^2c^2f^2hk^2k^2 + 3a^4b^3c^3d^2j^3k^2 - 3a^3b^4c^2e^2hk^2k^2 + 3a^2b^5c^2e^2hk^2k^2 + 3a^2b^2c^4f^4hk^2 + 3a^2b^2c^4f^4g^2k^2 + 3a^2b^5c^2e^3hk^2k^2 - 3a^2b^4c^3e^3hk^2k^2 - 21a^4b^3c^3d^2g^2m^3 - 21a^2b^5c^2d^2g^2m^3 + 18a^3b^4c^2d^2g^2m^3 + 18a^2c^6d^2e^2f^2k^2 + 18a^2b^4c^3d^3hk^2k^2 + 15a^3b^3c^4e^3f^2m^2 + 15a^2b^3c^5d^3hk^2k^2 - 15a^2b^3c^4d^3hk^2k^2 - 9a^4b^3c^3e^2hk^2k^2 - 9a^3b^3c^4f^3g^2k^2 - 9a^2b^3c^5e^3f^2m^2 + 3a^3b^3c^4f^2hk^2j^2 + 3a^2b^5c^2e^3f^2m^2 + 3a^2b^3c^4e^3f^2m^2 + 18a^2b^4c^3d^3f^2m^2 + 15a^4b^3c^3d^2g^2k^2 + 12a^2b^2c^5d^3f^2m^2 - 9a^3b^3c^4e^2hk^2j^2 - 9a^3b^3c^4e^2f^3k^2 + 3a^3b^3c^4e^3g^2k^2 + 3a^2b^3c^5e^2f^3k^2 - 3a^2b^4c^3e^3g^2k^2 + 3a^2b^3c^4e^3g^2k^2 + 18a^2c^6d^2e^2g^2hk^2 - 18a^2c^6d^2e^2g^2hk^2 - 12a^4b^2c^2d^2f^2k^4 - 9a^2b^2c^4d^2g^4k^2 + 9a^2b^3c^4d^2g^3k^2 + 6a^3b^3c^2d^2g^2k^4 + 6a^3b^3c^4d^2g^2k^3 - 6a^3b^3c^4d^2g^3k^2 + 6a^2b^3c^5d^3g^2k^2 - 6a^2b^3c^5d^2g^3k^2 - 6a^2b^3c^4d^3g^2k^2 - 6a^2b^2c^5d^3g^2k^2 - 3a^3b^3c^2e^2f^2k^4 + 3a^3b^2c^3e^2g^2j^4 + 3a^3b^2c^3d^2hk^2j^4 + 3a^2b^5c^2d^2g^2k^3 + 15a^2b^3c^5d^3e^2k^2 - 15a^2b^3c^4d^3e^2k^2 - 9a^3b^3c^4d^2g^2j^3 - 9a^2b^3c^5e^3f^2j^2 - 3a^2b^4c^3d^2g^2j^3 + 3a^2b^3c^4e^3f^2j^2 - 3a^2b^2c^5e^3f^2j^2 + 12a^2b^2c^5d^3f^2j^2 - 9a^2b^3c^5d^2e^3k^2 + 3a^2b^3c^5e^2g^3hk^2 + 3a^2b^3c^4d^2e^3k^2 - 9a^2b^3c^5d^2g^2hk^2 - 3a^2b^3c^3d^2e^2j^4 + 3a^2b^3
\end{aligned}$$

$$\begin{aligned}
& *c^5*ef^3*h^2 + 3*a*b^3*c^4*d^2*g*h^3 + 3*a^2*b^2*c^4*d*f*h^4 - 9*a^7*c*k^2*l^2*m^2 - 6*a^6*c^2*j^2*k^3*m - 3*a^6*b^2*h*l^2*m^3 + 3*a^5*b^3*h^2*l*m^3 \\
& - 6*a^6*c^2*g^2*k*m^3 - 6*a^6*c^2*h*k^3*l^2 + 6*a^5*c^3*h^3*j^2*m + 6*a^6*c^2*g*k^2*l^3 - 6*a^6*c^2*f*k^3*m^2 - 6*a^5*c^3*h^2*j^3*l - 6*a^5*c^3*g^3*j \\
& *m^2 + 6*a^5*c^3*f^2*k^3*m + 3*a^5*b^3*g*k^2*m^3 - 3*a^4*b^4*g^2*k*m^3 + 12 \\
& *a^6*c^2*f*j^2*m^3 + 12*a^4*c^4*f^3*j^2*m + 3*a^5*b^3*e*l^2*m^3 + 3*a^3*b^5 \\
& *e^2*l*m^3 - 6*a^6*c^2*d*k^2*m^3 - 6*a^5*c^3*f^2*j*l^3 + 6*a^5*c^3*d^2*k*m^3 \\
& - 6*a^5*c^3*g*j^3*k^2 + 6*a^4*c^4*e^3*j*m^2 - 3*b^6*c^2*d^3*j^2*m - 3*a^4 \\
& *b^4*f*j^2*m^3 + 3*a^3*b^5*f^2*j*m^3 + 6*a^5*c^3*f*j^2*k^3 + 6*a^5*c^3*f*h^3 \\
& *m^2 - 6*a^5*c^3*e*j^3*l^2 + 6*a^4*c^4*g^3*h^2*l - 6*a^4*c^4*f^2*h^3*m + 6 \\
& *a^4*c^4*e^2*j^3*l + 6*a^3*c^5*d^3*j^2*m - 3*a^4*b^4*d*k^2*m^3 - 3*a^2*b^6* \\
& d^2*k*m^3 + 6*a^5*c^3*e^2*h*m^3 - 6*a^4*c^4*g^2*h^3*k - 6*a^4*c^4*f^3*h*l^2 \\
& + 12*a^5*c^3*e*h^2*l^3 + 12*a^3*c^5*e^3*h^2*l - 3*b^6*c^2*d^3*h*l^2 + 3*b^5 \\
& *c^3*d^3*h^2*l - 3*a^5*b^2*c*j^4*m^2 + 3*a^3*b^5*e*h^2*m^3 - 3*a^2*b^6*e^2 \\
& *h*m^3 + 6*a^5*c^3*d*g^2*m^3 - 6*a^4*c^4*e^2*h*k^3 - 6*a^4*c^4*f*h^3*j^2 + \\
& 6*a^4*c^4*e*g^3*l^2 + 6*a^3*c^5*f^3*g^2*k - 6*a^3*c^5*e^2*g^3*l + 6*a^3*c^5 \\
& *d^3*h*l^2 - 3*b^6*c^2*d^3*f*m^2 - 3*b^4*c^4*d^3*f^2*m + 6*a^4*c^4*d^2*g*l^3 \\
& + 6*a^4*c^4*e*h^2*j^3 - 6*a^4*c^4*d*h^3*k^2 - 6*a^3*c^5*f^2*g^3*j - 6*a^3 \\
& *c^5*e^3*g*k^2 + 6*a^3*c^5*d^3*f*m^2 + 6*a^3*c^5*d^2*h^3*k - 6*a^2*c^6*d^3* \\
& f^2*m + 4*a^5*b^2*c*h^3*m^3 + 3*b^5*c^3*d^3*g*k^2 - 3*b^4*c^4*d^3*g^2*k - 3 \\
& *a^2*b^6*d*g^2*m^3 + a^5*b*c^2*j^3*k^3 + 12*a^4*c^4*d*g^2*k^3 + 12*a^2*c^6* \\
& d^3*g^2*k + 6*a^5*b*c^2*h^3*l^3 + 5*a^5*b*c^2*g^3*m^3 - 5*a^4*b^3*c*g^3*m^3 \\
& + 3*b^5*c^3*d^3*e*l^2 + 3*b^3*c^5*d^3*e^2*l - 3*a^5*b^2*c*h^2*l^4 + a^4*b^3 \\
& *c*h^3*l^3 + 12*a^5*b^2*c*f^2*m^4 - 6*a^3*c^5*d^2*g*j^3 + 6*a^3*c^5*d*f^3* \\
& k^2 + 6*a^3*b^4*c*f^3*m^3 + 6*a^2*c^6*e^3*f^2*j - 6*a^2*c^6*d^2*f^3*k - 3*b^4 \\
& *c^4*d^3*f*j^2 + 3*b^3*c^5*d^3*f^2*j - 3*a^2*b^2*c^4*f^5*m - 7*a^4*b*c^3* \\
& e^3*m^3 - 7*a^2*b^5*c*e^3*m^3 + 6*a^4*b*c^3*g^3*k^3 - 6*a^3*c^5*e*g^3*h^2 - \\
& 6*a^2*c^6*d^3*f*j^2 + 5*a^4*b*c^3*f^3*l^3 + a^4*b*c^3*h^3*j^3 + a^2*b^5*c* \\
& f^3*l^3 + 6*a^3*c^5*d*g^2*h^3 - 6*a^2*c^6*e^2*f^3*h - 3*a^3*b^4*c*e^2*l^4 - \\
& 3*a*b^4*c^3*e^4*l^2 - 7*a^3*b*c^4*d^3*l^3 - 7*a*b^5*c^2*d^3*l^3 + 6*a^3*b* \\
& c^4*f^3*j^3 + 5*a^3*b*c^4*e^3*k^3 + 3*b^3*c^5*d^3*e*h^2 - 3*b^2*c^6*d^3*e^2 \\
& *h + a*b^5*c^2*e^3*k^3 + 12*a*b^2*c^5*d^4*k^2 - 6*a^2*c^6*d*f^3*g^2 + 6*a*b^4 \\
& *c^3*d^3*k^3 - 3*a^4*b^2*c^2*d*k^5 + a^3*b*c^4*g^3*h^3 + 5*a^2*b*c^5*d^3* \\
& j^3 - 5*a*b^3*c^4*d^3*j^3 - 9*a*c^7*d^2*e^2*f^2 + 6*a^2*b*c^5*e^3*h^3 - 3*a \\
& *b^2*c^5*e^4*h^2 + a^2*b*c^5*f^3*g^3 + a*b^3*c^4*e^3*h^3 + 4*a*b^2*c^5*d^3* \\
& h^3 - 3*a*b^2*c^5*d^2*g^4 - 6*a^7*c*j*l^3*m^2 + 6*a^7*c*h*l^2*m^3 + 6*a^6*c^2 \\
& *j*k^4*l + 6*a^6*c^2*h*k^4*m - 6*a^5*c^3*h^4*k*m + 3*a^6*b^2*h*k*m^4 + 3* \\
& a^6*b^2*g*l*m^4 - 3*b^5*c^3*d^4*l*m - 6*a^6*c^2*g*j*l^4 - 6*a^6*c^2*f*k*l^4 \\
& - 6*a^6*c^2*d*l^4*m + 6*a^5*c^3*h*j^4*k + 6*a^5*c^3*g*j^4*l + 6*a^5*c^3*f* \\
& j^4*m - 6*a^4*c^4*g^4*j*l + 6*a^3*c^5*e^4*k*m + 6*a^5*b^3*f*j*m^4 - 6*a^4*c^4 \\
& *g^4*h*m + 3*b^7*c*d^3*j*m^2 - 3*a^5*b^3*e*k*m^4 - 3*a^5*b^3*d*l*m^4 + 3* \\
& b^4*c^4*d^4*j*l - 3*a^5*b^3*g*h*m^4 - 6*a^5*c^3*e*j*k^4 + 6*a^2*c^6*d^4*j*l \\
& + 3*b^4*c^4*d^4*h*m + 6*a^6*c^2*e*g*m^4 + 6*a^6*c^2*d*h*m^4 + 6*a^6*b*c*j^3 \\
& *m^3 - 6*a^5*c^3*f*h*k^4 + 6*a^4*c^4*g*h^4*j + 6*a^4*c^4*f*h^4*k + 6*a^4*c^4 \\
& *e*h^4*l + 6*a^4*c^4*d*h^4*m - 6*a^3*c^5*f^4*h*k - 6*a^3*c^5*f^4*g*l + 6*
\end{aligned}$$

$$\begin{aligned}
& a^2c^6d^4h^m + 3a^5b^3c^2j^5m + a^6b^3c^3k^1l^3 + 3a^4b^4e^*g^m^4 + \\
& 3a^4b^4d^*h^m^4 + 6b^3c^5d^4g^*k - 3b^3c^5d^4h^*j - 3b^3c^5d^4* \\
& f^*l - 3b^3c^5d^4e^*m + 3a^*b^7d^2g^*m^3 + 6a^5c^3d^*f^*l^4 - 6a^4c^4 \\
& *e^*g^*j^4 - 6a^4c^4d^*h^*j^4 + 6a^3c^5e^*g^4*j + 6a^3c^5d^*g^4*k - 6a^ \\
& 2c^6e^4g^*j - 6a^2c^6e^4f^*k - 6a^2c^6d^*e^4*m + 3a^4b^3c^3h^5*l + \\
& 6a^3c^5f^*g^4*h - 3a^3b^5d^*e^*m^4 + 3b^2c^6d^4e^*j + 3a^5b^3c^2g^* \\
& k^5 + 3a^3b^3c^4g^5*k + 8a^*b^6c^d^3m^3 + 3b^2c^6d^4f^*h - 3a^5b^2 \\
& *c^e^1^5 - 3a^*b^2c^5e^5*l - 6a^3c^5d^*f^*h^4 + 6a^2c^6e^*f^4*g + 6a^ \\
& 2c^6d^*f^4*h + 3a^4b^3c^3f^*j^5 + 3a^2b^3c^5f^5*j + 6a^*c^7d^3e^2*h - \\
& 6a^*c^7d^2e^3*g + 3a^3b^3c^4e^*h^5 + 6a^*b^6c^d^3g^3 + 3a^2b^3c^5d^* \\
& g^5 + a^*b^6c^e^3f^3 - 9a^6c^2j^2k^2l^2 - 9a^6c^2h^2k^2m^2 - 9a^ \\
& ^6c^2g^2l^2m^2 - 18a^5c^3f^2j^2m^2 - 9a^5c^3h^2j^2k^2 - 9a^5 \\
& *c^3g^2j^2l^2 - 9a^5c^3f^2k^2l^2 - 9a^5c^3e^2k^2m^2 - 9a^5c^ \\
& 3d^2l^2m^2 - 9a^5c^3g^2h^2m^2 - 9a^4c^4e^2j^2k^2 - 9a^4c^4d \\
& ^2j^2l^2 - 18a^4c^4e^2h^2l^2 - 9a^4c^4g^2h^2j^2 - 9a^4c^4f^2 \\
& *h^2k^2 - 9a^4c^4f^2g^2l^2 - 9a^4c^4e^2g^2m^2 - 9a^4c^4d^2h^ \\
& 2m^2 - 18a^3c^5d^2g^2k^2 - 9a^3c^5e^2g^2j^2 - 9a^3c^5e^2f^2* \\
& k^2 - 9a^3c^5d^2h^2j^2 - 9a^3c^5d^2f^2l^2 - 9a^3c^5d^2e^2m^2 \\
& - 3a^4b^2c^2h^4l^2 - 18a^4b^2c^2f^3m^3 + 12a^3b^2c^3f^4m^2 \\
& - 9a^3c^5f^2g^2h^2 + 4a^4b^2c^2g^3l^3 - 3a^2b^4c^2f^4m^2 + 1 \\
& 4a^3b^3c^2e^3m^3 - 5a^3b^3c^2f^3l^3 - 3a^4b^2c^2g^2k^4 - 3a^ \\
& ^3b^2c^3g^4k^2 + a^3b^3c^2g^3k^3 - 20a^2b^4c^2d^3m^3 - 18a^3* \\
& b^2c^3e^3l^3 + 16a^3b^2c^3d^3m^3 + 12a^4b^2c^2e^2l^4 + 12a^2* \\
& b^2c^4e^4l^2 - 9a^2c^6d^2e^2j^2 + 6a^2b^4c^2e^3l^3 + 4a^3b^2 \\
& *c^3f^3k^3 + 14a^2b^3c^3d^3l^3 - 9a^2c^6e^2f^2g^2 - 9a^2c^6d \\
& ^2f^2h^2 - 5a^2b^3c^3e^3k^3 - 3a^3b^2c^3f^2j^4 - 3a^2b^2c^4* \\
& f^4j^2 + a^2b^3c^3f^3j^3 - 18a^2b^2c^4d^3k^3 + 12a^3b^2c^3d^2 \\
& *k^4 + 4a^2b^2c^4e^3j^3 - 3a^2b^4c^2d^2k^4 - 3a^2b^2c^4e^2h^ \\
& 4 + 6a^7c^*k^1^4m - 3a^7b^*k^1^4m - 6a^7c^*h^*k^*m^4 - 6a^7c^*g^*l^*m^4 + \\
& 3a^6b^*c^*h^*l^5 - 6a^*c^7d^4e^*j - 6a^*c^7d^4f^*h - 3b^*c^7d^4e^*f + 6 \\
& a^*c^7d^4e^*f + 3a^*b^6c^6e^5h - a^5b^2c^*j^3l^3 - a^3b^4c^*g^3l^3 - a \\
& *b^4c^3e^3j^3 - a^*b^2c^5e^3g^3 + 3a^7b^*j^*m^5 + 6a^7c^*f^*m^5 + 6a^* \\
& c^7d^5k + 3b^*c^7d^5g - 3a^6c^2j^4m^2 - 3a^6b^2j^2m^4 + 2a^6c^ \\
& ^2j^3l^3 + a^5b^3j^3m^3 - 2a^6c^2h^3m^3 - 3a^6c^2h^2l^4 - 3a^ \\
& 5c^3h^4l^2 - a^*b^6c^e^3l^3 + 20a^5c^3f^3m^3 - 15a^6c^2f^2m^4 - \\
& 15a^4c^4f^4m^2 + 2a^5c^3h^3k^3 - 2a^5c^3g^3l^3 + a^3b^5g^3m \\
& ^3 - 3a^5c^3g^2k^4 - 3a^4c^4g^4k^2 - 3a^4b^4f^2m^4 + 20a^4c^4 \\
& *e^3l^3 - 15a^5c^3e^2l^4 - 15a^3c^5e^4l^2 + 2a^4c^4g^3j^3 - 2* \\
& a^4c^4f^3k^3 - 2a^4c^4d^3m^3 - 3b^4c^4d^4k^2 - 3a^4c^4f^2j^4 \\
& - 3a^3c^5f^4j^2 + 20a^3c^5d^3k^3 - 15a^4c^4d^2k^4 - 15a^2c^6 \\
& *d^4k^2 - 2a^3c^5e^3j^3 + b^5c^3d^3j^3 + 2a^3c^5f^3h^3 - 3a^3* \\
& c^5e^2h^4 - 3a^2c^6e^4h^2 - 3b^2c^6d^4g^2 + 2a^2c^6e^3g^3 - 2 \\
& *a^2c^6d^3h^3 + b^3c^5d^3g^3 - 3a^2c^6d^2g^4 - a^4b^2c^2h^3k^ \\
& 3 - a^3b^2c^3g^3j^3 - a^2b^4c^2f^3k^3 - a^2b^2c^4f^3h^3 + 2a^7 \\
& *c^*k^3m^3 + a^7b^*l^3m^3 - 3a^7c^*j^2m^4 + 6a^3c^5f^5m - 3a^6b^2*
\end{aligned}$$

$$\begin{aligned}
& f^m^5 + 6a^6c^2e^1^5 + 6a^2c^6e^5^1 + b^7c^d^3l^3 + a^b^7e^3m^3 - \\
& 3b^2c^6d^5k + 6a^5c^3dk^5 - 3a^c^7d^4g^2 + 2a^c^7d^3f^3 + b^c^7d^3e^3 - a^6b^2k^3m^3 - a^4b^4h^3m^3 - a^2b^6f^3m^3 - b^6c^2 \\
& d^3k^3 - b^4c^4d^3h^3 - b^2c^6d^3f^3 - b^8d^3m^3 - a^6c^2k^6 - \\
& a^5c^3j^6 - a^4c^4h^6 - a^3c^5g^6 - a^2c^6f^6 - a^7c^1^6 - a^c^7e^6 - a^8m^6 - c^8d^6, z, k1) \cdot (243a^5b^5c^6 + 3888a^3b^5c^8 - 1944a^2b^5c^7) / c^3 + \\
& (x \cdot (81b^5c^6d - 1296a^3c^8g + 648a^2b^2c^7g - 648a^ab^3c^7d + 1296a^2b^5c^8d - 81a^ab^4c^6g)) / c^3) + (216a^2b^5c^7f^2 \\
& - 54a^ab^3c^6f^2 + 81a^ab^5c^4j^2 + 1512a^3b^5c^6j^2 + 81a^ab^7c^2m^2 - 648a^4b^5c^5m^2 - 702a^2b^3c^5j^2 - 702a^2b^5c^3m^2 + 1674a^3b^3c^4m^2 - 432a^2c^8d^5e + 27b^4c^6d^5e + 432a^3c^7g^5h + 432a^3c^7d^5l + 432a^3c^7e^5k - 864a^3c^7f^5j + 864a^4c^6j^5m - 432a^4c^6k^5l - 108a^ab^3c^6d^5h - 108a^ab^3c^6e^5g + 432a^2b^5c^7d^5h + 432a^2b^5c^7e^5g + 81a^ab^4c^5g^5h + 81a^ab^4c^5d^5l + 81a^ab^4c^5e^5k - 81a^ab^5c^4g^5l - 81a^ab^5c^4h^5k + 432a^3b^5c^6f^5m - 864a^3b^5c^6g^5l - 864a^3b^5c^6h^5k - 162a^ab^6c^3j^5m + 81a^ab^6c^3k^5l - 432a^2b^2c^6g^5h - 432a^2b^2c^6d^5l - 432a^2b^2c^6e^5k + 216a^2b^2c^6f^5j - 108a^2b^3c^5f^5m + 540a^2b^3c^5g^5l + 540a^2b^3c^5h^5k + 1404a^2b^4c^4j^5m - 621a^2b^4c^4k^5l - 3240a^3b^2c^5j^5m + 1296a^3b^2c^5k^5l) / c^3 + (x \cdot (216a^2c^8e^2 + 27b^4c^6e^2 - 216a^3c^7h^2 + 216a^4c^6l^2 - 162a^ab^2c^7e^2 + 54a^2b^2c^6h^2 + 27a^2b^4c^4l^2 - 162a^3b^2c^5l^2 + 432a^2c^8d^5f + 54b^4c^6d^5f - 81b^5c^5d^5j - 432a^3c^7d^5m - 432a^3c^7e^5l - 432a^3c^7f^5k + 864a^3c^7g^5j + 81b^6c^4d^5m + 432a^4c^6k^5m - 324a^ab^2c^7d^5f - 54a^ab^3c^6e^5h - 54a^ab^3c^6f^5g + 216a^2b^5c^7e^5h + 216a^2b^5c^7f^5g + 594a^ab^3c^6d^5j - 1080a^2b^5c^7d^5j - 648a^ab^4c^5d^5m + 81a^ab^4c^5g^5j - 81a^ab^5c^4g^5m - 1080a^3b^5c^6g^5m + 216a^3b^5c^6h^5l + 216a^3b^5c^6j^5k + 1404a^2b^2c^6d^5m + 108a^2b^2c^6e^5l + 108a^2b^2c^6f^5k - 540a^2b^2c^6g^5j + 594a^2b^3c^5g^5m - 54a^2b^3c^5h^5l - 54a^2b^3c^5j^5k + 54a^2b^4c^4k^5m - 324a^3b^2c^5k^5m)) / c^3) + (36a^c^8d^3 + 9a^ab^8m^3 - 9b^2c^7d^3 + 72a^2c^7f^3 + 36a^3c^6h^3 - 36a^4c^5k^3 - 72a^5c^4m^3 - 18a^ab^2c^6f^3 - 9a^ab^3c^5g^3 + 36a^2b^5c^6g^3 + 9a^ab^4c^4h^3 - 108a^2c^7d^3g^2 - 9a^ab^5c^3j^3 - 288a^3b^5c^5j^3 + 9a^ab^6c^2k^3 - 108a^2c^7e^2h + 108a^4b^5c^4l^3 - 81a^2b^6c^5m^3 - 108a^2c^7d^2k + 108a^3c^6d^5k^2 + 216a^3c^6f^5j^2 + 108a^3c^6g^5k^2 - 216a^3c^6f^2m + 216a^4c^5f^5m^2 - 108a^4c^5h^5l^2 - 216a^4c^5j^2m - 45a^2b^2c^5h^3 + 108a^2b^3c^4j^3 - 63a^2b^4c^3k^3 + 117a^3b^2c^4k^3 + 72a^2b^5c^2l^3 - 171a^3b^3c^3l^3 + 180a^3b^4c^2m^3 + 18a^4b^2c^3m^3 - 9a^ab^7c^1^3 + 27b^3c^6d^5e^5f + 216a^2c^7d^5e^5j - 27b^4c^5d^5e^5j + 27b^5c^4d^5e^5m - 27a^ab^7c^5j^5m^2 + 216a^3c^6e^5h^5l - 216a^3c^6g^5h^5j - 216a^3c^6d^5j^5l - 216a^3c^6e^5j^5k + 216a^4c^5j^5k^5l + 27a^ab^2c^6d^5g^2 + 27a^ab^2c^6e^5h^2 - 27a^ab^3c^5e^5h^2 + 108a^2b^5c^6e^5h^2 + 27a^ab^2c^6d^5k^2 + 27a^ab^4c^4d^5k^2 + 54a^ab^3c^5f^5j^2 - 27a^ab^4c^4f^5j^2 - 216a^2b^5c^6f^5j^2 - 27a^ab^3c^5e^5l^2 - 27a^ab^5c^3e^5l^2 + 108a^2b^5c^6e^5l^2 - 216a^3b^5c^5e^5l^2 + 27a^ab^4c^4g^5j^2
\end{aligned}$$

$$\begin{aligned}
& k - 27*a*b^5*c^3*g*k^2 - 216*a^3*b*c^5*g*k^2 - 54*a*b^4*c^4*f^2*m - 27*a*b^6*c^2*f*m^2 - 27*a*b^5*c^3*h^2*1 + 27*a*b^6*c^2*h*1^2 - 216*a^3*b*c^5*h^2*1 \\
& + 27*a*b^6*c^2*j^2*m + 216*a^4*b*c^4*j*m^2 - 135*a^2*b^2*c^5*d*k^2 + 54*a^2*b^2*c^5*f*j^2 + 162*a^2*b^3*c^4*e*1^2 - 135*a^2*b^2*c^5*g^2*k + 162*a^2*b^3*c^4*g*k^2 + 270*a^2*b^2*c^5*f^2*m + 162*a^2*b^4*c^3*f*m^2 - 270*a^3*b^2*c^4*f*m^2 + 162*a^2*b^3*c^4*h^2*1 - 189*a^2*b^4*c^3*h*1^2 + 351*a^3*b^2*c^4*h*1^2 - 297*a^2*b^4*c^3*j^2*m + 270*a^2*b^5*c^2*j*m^2 + 810*a^3*b^2*c^4*j^2*m - 702*a^3*b^3*c^3*j*m^2 - 108*a*b*c^7*d*e*f + 27*a*b^7*c*k*1*m + 54*a*b^2*c^6*d*e*j - 27*a*b^3*c^5*f*g*h + 108*a^2*b*c^6*f*g*h - 81*a*b^3*c^5*d*e*m - 27*a*b^3*c^5*d*f*1 - 54*a*b^3*c^5*d*g*k + 54*a*b^3*c^5*d*h*j - 27*a*b^3*c^5*e*f*k + 54*a*b^3*c^5*e*g*j - 108*a^2*b*c^6*d*e*m + 108*a^2*b*c^6*d*f*1 + 216*a^2*b*c^6*d*g*k - 216*a^2*b*c^6*d*h*j + 108*a^2*b*c^6*e*f*k - 216*a^2*b*c^6*e*g*j - 54*a*b^4*c^4*d*h*m - 54*a*b^4*c^4*e*g*m + 54*a*b^4*c^4*e*h*1 + 27*a*b^4*c^4*f*g*1 + 27*a*b^4*c^4*f*h*k - 27*a*b^4*c^4*g*h*j - 27*a*b^4*c^4*d*j*1 - 27*a*b^4*c^4*e*j*k + 27*a*b^5*c^3*g*h*m + 108*a^3*b*c^5*g*h*m + 27*a*b^5*c^3*d*1*m + 27*a*b^5*c^3*e*k*m + 54*a*b^5*c^3*f*j*m - 27*a*b^5*c^3*f*k*1 + 27*a*b^5*c^3*g*j*1 + 27*a*b^5*c^3*h*j*k + 108*a^3*b*c^5*d*1*m + 108*a^3*b*c^5*e*k*m - 108*a^3*b*c^5*f*k*1 + 432*a^3*b*c^5*g*j*1 + 432*a^3*b*c^5*h*j*k - 27*a*b^6*c^2*g*1*m - 27*a*b^6*c^2*h*k*m - 27*a*b^6*c^2*j*k*1 - 108*a^4*b*c^4*k*1*m + 216*a^2*b^2*c^5*d*h*m + 216*a^2*b^2*c^5*e*g*m - 270*a^2*b^2*c^5*e*h*1 - 108*a^2*b^2*c^5*f*g*1 - 108*a^2*b^2*c^5*f*h*k + 162*a^2*b^2*c^5*g*h*j + 162*a^2*b^2*c^5*d*j*1 + 162*a^2*b^2*c^5*e*j*k - 135*a^2*b^3*c^4*g*h*m - 135*a^2*b^3*c^4*d*1*m - 135*a^2*b^3*c^4*e*k*m - 216*a^2*b^3*c^4*f*j*m + 135*a^2*b^3*c^4*f*k*1 - 216*a^2*b^3*c^4*g*j*1 - 216*a^2*b^3*c^4*h*j*k + 189*a^2*b^4*c^3*g*1*m + 189*a^2*b^4*c^3*h*k*m - 324*a^3*b^2*c^4*g*1*m - 324*a^3*b^2*c^4*h*k*m + 243*a^2*b^4*c^3*j*k*1 - 594*a^3*b^2*c^4*j*k*1 - 216*a^2*b^5*c^2*k*1*m + 459*a^3*b^3*c^3*k*1*m)/c^3 + (x*(27*b^2*c^7*d^2*e - 108*a^2*c^7*e*g^2 + 27*b^3*c^6*e^2*f - 27*b^3*c^6*d^2*h - 108*a^2*c^7*e^2*j + 27*b^5*c^4*d*j^2 + 108*a^2*c^7*d^2*1 - 108*a^3*c^6*e*k^2 - 27*b^4*c^5*e^2*j - 216*a^3*c^6*g*j^2 + 27*b^4*c^5*d^2*1 + 108*a^3*c^6*h^2*j + 27*b^7*c^2*d*m^2 + 108*a^3*c^6*g^2*1 + 27*b^5*c^4*e^2*m - 108*a^4*c^5*j*1^2 + 108*a^4*c^5*k^2*1 - 108*a*c^8*d^2*e - 108*a*b*c^7*e^2*f + 108*a*b*c^7*d^2*h - 27*b^3*c^6*d*e*g + 216*a^2*c^7*e*f*h + 216*a^2*c^7*d*e*k - 216*a^2*c^7*d*f*j + 27*b^4*c^5*d*g*h + 27*b^4*c^5*d*e*k - 27*b^4*c^5*d*f*j + 27*b^5*c^4*d*f*m - 27*b^5*c^4*d*g*1 - 27*b^5*c^4*d*h*k - 216*a^3*c^6*e*h*m - 216*a^3*c^6*f*h*1 + 216*a^3*c^6*d*j*m - 216*a^3*c^6*d*k*1 + 216*a^3*c^6*e*j*1 + 216*a^3*c^6*f*j*k - 54*b^6*c^3*d*j*m + 27*b^6*c^3*d*k*1 + 216*a^4*c^5*h*1*m - 216*a^4*c^5*j*k*m + 27*a*b^2*c^6*e*g^2 - 189*a*b^3*c^5*d*j^2 + 324*a^2*b*c^6*d*j^2 + 135*a*b^2*c^6*e^2*j - 27*a*b^3*c^5*g^2*h + 108*a^2*b*c^6*g^2*h - 135*a*b^2*c^6*d^2*1 - 27*a*b^4*c^4*g*j^2 - 216*a*b^5*c^3*d*m^2 - 216*a^3*b*c^5*d*m^2 - 162*a*b^3*c^5*e^2*m + 216*a^2*b*c^6*e^2*m + 108*a^3*b*c^5*f*1^2 + 27*a*b^4*c^4*g^2*1 + 108*a^3*b*c^5*h*k^2 - 27*a*b^6*c^2*g*m^2 - 108*a^3*b*c^5*h^2*m - 108*a^3*b*c^5*j^2*k + 216*a^4*b*c^4*k*m^2 + 27*a^2*b^2*c^5*e*k^2 + 162*a^2*b^2*c^5*g*j^2 + 486*a^2*b^3*c^4*d*m^2 - 27*a^2*b^2*c^5*h^2*j - 27*a^2*b^3*c^4*f*1^2 - 135*a^2*b^2*c^5*g^2*1 - 27*a^2*b^3*c^4*h*k^2 + 189*a^2*
\end{aligned}$$

$$\begin{aligned}
& b^4c^3g^m^2 - 324a^3b^2c^4g^m^2 + 27a^2b^3c^4h^2m + 27a^2b^3c^4j^2k + 27a^3b^2c^4j^2l^2 + 27a^2b^4c^3k^2l - 135a^3b^2c^4k^2l^2 + 27a^2b^5c^2k^2m^2 - 162a^3b^3c^3k^2m^2 + 108ab^7c^2d^2eg - 108a^2b^2c^6d^2g^2h - 54a^2b^2c^6d^2ef^2h - 162a^2b^2c^6d^2e^2k + 162a^2b^2c^6d^2f^2j - 162a^2b^3c^5d^2f^2m + 135a^2b^3c^5d^2g^2l + 162a^2b^3c^5d^2h^2k - 27a^2b^3c^5e^2g^2k + 54a^2b^3c^5e^2h^2j + 27a^2b^3c^5f^2g^2j + 216a^2b^3c^6d^2f^2m - 108a^2b^3c^6d^2g^2l - 216a^2b^3c^6d^2h^2k + 108a^2b^3c^6e^2g^2k - 216a^2b^3c^6e^2h^2j - 108a^2b^3c^6f^2g^2j - 54a^2b^4c^4e^2h^2m - 27a^2b^4c^4f^2g^2m + 27a^2b^4c^4g^2h^2k + 405a^2b^4c^4d^2j^2m - 189a^2b^4c^4d^2k^2l + 54a^2b^5c^3g^2j^2m - 27a^2b^5c^3g^2k^2l - 216a^3b^2c^5e^2l^2m - 216a^3b^2c^5f^2k^2m + 540a^3b^2c^5g^2j^2m - 108a^3b^2c^5g^2k^2l + 270a^2b^2c^5e^2h^2m + 108a^2b^2c^5f^2g^2m + 54a^2b^2c^5f^2h^2l - 108a^2b^2c^5g^2h^2k - 810a^2b^2c^5d^2j^2m + 378a^2b^2c^5d^2k^2l - 54a^2b^2c^5e^2j^2l - 54a^2b^2c^5f^2j^2k + 54a^2b^3c^4e^2l^2m + 54a^2b^3c^4f^2k^2m - 351a^2b^3c^4g^2j^2m + 135a^2b^3c^4g^2k^2l - 54a^3b^2c^4h^2l^2m - 54a^2b^4c^3j^2k^2m + 270a^3b^2c^4j^2k^2m)/c^3) - (6a^3b^5m^4 - 9b^7c^2d^2e^2 - 27a^3b^5m^4 + 12a^2c^6f^2g^3 - 30a^4b^3c^2m^4 + 21a^5b^2c^2m^4 - 6b^2c^6d^3j + 24a^2c^6f^3j + 24a^3c^5f^2j^3 + 12a^2c^6e^3m + 12a^3c^5h^3j + 12a^4c^4f^2l^3 + 6b^3c^5d^3m - 12a^3c^5g^3m - 12a^4c^4j^2k^3 - 6a^2b^6j^2m^3 - 24a^4c^4j^3m - 24a^5c^3j^2m^3 - 12a^5c^3l^3m + 6a^2b^3c^3j^4 - 3a^2b^6c^2f^4 - 12a^2c^7e^3f + 6b^7c^2d^3f + 12a^2c^7d^3j + 6a^2b^7f^2m^3 + 36a^2c^7d^2ef^2 + 6a^2b^6c^2e^3j - 36a^2c^7d^2f^2g - 18a^2b^6c^2d^3m - 6a^2b^6c^2f^2l^3 - 54a^2b^3c^3f^2m^2 - 81a^3b^3c^2j^2m^2 - 9a^2b^6c^6d^2h^2 - 9a^2b^6c^6e^2g^2 - 6a^2b^2c^5f^2g^3 + 6a^2b^3c^4f^2h^3 - 18a^2b^6c^5f^2h^3 - 9b^2c^6d^2ef^2 + 9b^2c^6d^2e^2g - 6a^2b^4c^3f^2j^3 + 9b^2c^6d^2e^2h + 6a^2b^5c^2f^2k^3 + 6a^2b^6c^5g^3j + 36a^2c^6d^2e^2j^2 + 36a^2c^6e^2f^2h^2 + 30a^3b^2c^4f^2k^3 - 6a^2b^2c^5e^3m - 9b^4c^4d^2e^2j^2 - 12a^2b^2c^5f^3m - 42a^2b^5c^2f^2m^3 - 36a^2c^6d^2g^2j - 36a^2c^6f^2g^2h - 60a^4b^3c^3f^2m^3 - 9b^3c^5d^2e^2k - 36a^2c^6d^2f^2l - 36a^2c^6e^2f^2k + 36a^3c^5d^2e^2m^2 - 9b^3c^5d^2e^2l + 36a^2c^6e^2f^2l - 36a^2c^6e^2h^2j + 6a^3b^2c^4h^3m - 36a^3c^5e^2f^2l^2 - 9b^6c^2d^2e^2m^2 + 6a^2b^5c^2j^2l^3 + 36a^2c^6d^2g^2m - 36a^3c^5f^2g^2k^2 + 30a^4b^2c^3j^2l^3 - 36a^2c^6d^2j^2k + 18a^3b^4c^2j^2m^3 + 36a^3c^5d^2j^2k^2 - 36a^3c^5g^2h^2j^2 - 36a^3c^5d^2j^2l - 36a^3c^5e^2h^2m - 36a^3c^5e^2j^2k - 36a^3c^5f^2h^2l - 18a^4b^2c^3k^3m - 6a^3b^4c^2l^3m + 36a^3c^5g^2j^2k - 36a^4c^4g^2h^2m^2 - 72a^3c^5f^2j^2m + 36a^3c^5f^2k^2l - 36a^4c^4d^2l^2m^2 - 36a^4c^4e^2k^2m^2 + 72a^4c^4f^2j^2m^2 - 36a^3c^5e^2l^2m + 36a^4c^4e^2l^2m - 36a^4c^4h^2j^2l^2 + 36a^4c^4g^2k^2m + 36a^4c^4h^2l^2m + 36a^4c^4j^2k^2l + 36a^5c^3k^2l^2m^2 - 9a^2b^2c^5g^2h^2 + 9a^2b^3c^4f^2j^2 - 9a^2b^2c^5d^2l^2 - 9a^2b^2c^5e^2k^2 - 54a^2b^2c^5f^2j^2 + 24a^2b^2c^4f^2j^3 - 30a^2b^3c^3f^2k^3 - 6a^2b^2c^4h^3j + 36a^2b^4c^2f^2l^3 - 54a^3b^2c^3f^2l^3 + 9a^2b^5c^2f^2m^2 + 54a^3b^2c^4f^2m^2 - 9a^3b^2c^4g^2l^2 - 9a^3b^2c^4h^2k^2 + 84a^3b^3c^2f^2m^3 - 6a^2b^4c^2j^2k^3 + 24a^3b^2c^3j^2k^3 - 30a
\end{aligned}$$

$$\begin{aligned}
&^3b^3c^2j^1l^3 - 18a^2b^4c^2j^3m + 18a^2b^5c^*j^2m^2 + 84a^3b^2 \\
&*c^3j^3m + 18a^4b^*c^3j^2m^2 - 9a^4b^*c^3k^2l^2 + 36a^4b^2c^2*j \\
&m^3 + 6a^3b^3c^2*k^3m + 24a^4b^2c^2*l^3m - 45a^2b^2c^4*d*e*m^2 + \\
&9a^2b^2c^4*d*g^*l^2 + 72a^2b^2c^4*e*f^*l^2 + 9a^2b^2c^4*e*h*k^2 + 7 \\
&2a^2b^2c^4*f*g*k^2 - 18a^2b^2c^4*d*j*k^2 + 9a^2b^2c^4*g*h*j^2 - 36 \\
&a^2b^3c^3*d*h*m^2 - 36a^2b^3c^3*e*g*m^2 + 9a^2b^2c^4*d*j^2*l + 9a \\
&^2b^2c^4*e*j^2*k + 72a^2b^2c^4*f*h^2*l + 9a^2b^2c^4*g*h^2*k - 90a^ \\
&2b^3c^3*f*h^*l^2 + 9a^2b^2c^4*g^2*h^*l - 9a^2b^3c^3*d*k^*l^2 + 18a^2* \\
&b^3c^3*e*j^*l^2 - 18a^2b^2c^4*g^2*j*k - 9a^2b^3c^3*e*k^2*l + 18a^2*b \\
&^3c^3*g*j*k^2 - 9a^2b^4c^2*g*h*m^2 + 45a^3b^2c^3*g*h*m^2 + 108a^2*b \\
&^2c^4*f^2*j*m - 45a^2b^2c^4*f^2*k^*l - 90a^2b^3c^3*f*j^2*m - 18a^2*b \\
&^3c^3*g*j^2*l - 18a^2b^3c^3*h*j^2*k - 9a^2b^4c^2*d^*l*m^2 - 9a^2b^4 \\
&*c^2*e*k^*m^2 + 108a^2b^4c^2*f*j^*m^2 + 45a^3b^2c^3*d^*l*m^2 + 45a^3b^ \\
&2c^3*e*k^*m^2 - 144a^3b^2c^3*f*j^*m^2 + 18a^2b^3c^3*h^2*j^*l - 18a^2*b \\
&^4c^2*h*j^*l^2 - 18a^3b^2c^3*e^*l^2*m + 9a^3b^2c^3*g*k^*l^2 + 72a^3b^ \\
&2c^3*h*j^*l^2 - 18a^3b^2c^3*g*k^2*m + 9a^3b^2c^3*h*k^2*l - 9a^3b^3* \\
&c^2*g^*l^*m^2 - 9a^3b^3c^2*h*k^*m^2 + 18a^2b^4c^2*j^2*k^*l - 18a^3b^2c \\
&^3h^2*l^*m - 81a^3b^2c^3*j^2*k^*l + 18a^3b^3c^2*h^*l^2*m - 81a^4b^2c \\
&^2k^*l^*m^2 + 18a*b*c^6*d*f*g^2 + 18a*b*c^6*e^2*f*h + 18a*b*c^6*d*e^2*k + \\
&18a*b*c^6*d^2*e^*l + 18a*b*c^6*d^2*f*k + 18a*b*c^6*d^2*g*j - 9b^3c^5*d \\
&*e*g*h + 18b^3c^5*d*e*f*j - 72a^2c^6*d*e*f*m + 72a^2c^6*d*f*g*k - 18* \\
&b^4c^4*d*e*f*m + 9b^4c^4*d*e*g^*l + 9b^4c^4*d*e*h*k - 18a*b^6*c*f*j^*m^ \\
&2 + 18b^5c^3*d*e*j^*m - 9b^5c^3*d*e*k^*l + 72a^3c^5*f*g*h^*m + 72a^3c^ \\
&5*d*f^*l^*m - 72a^3c^5*d*g*k^*m + 72a^3c^5*e*f*k^*m + 72a^3c^5*e*h*j^*l - \\
&72a^4c^4*f*k^*l^*m + 27a*b^2c^5*d*e*j^2 + 9a*b^2c^5*d*g*h^2 - 18a*b^2c \\
&^5*e*f*h^2 + 9a*b^2c^5*e*g^2*h + 9a*b^2c^5*f^2*g*h + 18a*b^3c^4*d*f* \\
&k^2 - 54a^2b^*c^5*d*f*k^2 + 9a*b^2c^5*d*f^2*l + 9a*b^2c^5*e*f^2*k + 9* \\
&a*b^3c^4*d*h*j^2 + 9a*b^3c^4*e*g*j^2 + 45a*b^4c^3*d*e*m^2 - 36a^2b^*c \\
&^5*d*h*j^2 - 36a^2b^*c^5*e*g*j^2 - 18a*b^2c^5*e^2*f^*l + 9a*b^2c^5*e^2* \\
&g*k - 9a*b^3c^4*d*h^2*k - 18a*b^4c^3*e*f^*l^2 + 18a^2b^*c^5*d*h^2*k + 1 \\
&8a^2b^*c^5*e*h^2*j - 18a*b^2c^5*d^2*g^*m + 9a*b^2c^5*d^2*h^*l - 9a*b^3* \\
&c^4*e*g^2*l + 18a*b^3c^4*f*g^2*k - 18a*b^4c^3*f*g*k^2 + 18a^2b^*c^5*d* \\
&g^2*m + 18a^2b^*c^5*e*g^2*l - 54a^2b^*c^5*f*g^2*k - 9a*b^3c^4*f^2*g^*l - \\
&9a*b^3c^4*f^2*h^*k + 9a*b^5c^2*d*h^*m^2 + 9a*b^5c^2*e*g^*m^2 + 36a^2b^ \\
&*c^5*f^2*g^*l + 36a^2b^*c^5*f^2*h^*k - 18a*b^4c^3*f*h^2*l + 18a*b^5c^2*f \\
&*h^*l^2 + 18a^2b^*c^5*e^2*h^*m + 90a^3b^*c^4*f*h^*l^2 + 18a^2b^*c^5*e^2*j^*l \\
&+ 18a^3b^*c^4*d*k^*l^2 - 54a^3b^*c^4*e*j^*l^2 + 18a^2b^*c^5*d^2*k^*m + 18* \\
&a^3b^*c^4*d*k^2*m + 18a^3b^*c^4*e*k^2*l - 54a^3b^*c^4*g*j^*k^2 - 18a*b^4* \\
&c^3*f^2*j^*m + 9a*b^4c^3*f^2*k^*l + 18a*b^5c^2*f*j^2*m + 36a^3b^*c^4*f*j \\
&^2*m + 72a^3b^*c^4*g*j^2*l + 72a^3b^*c^4*h*j^2*k - 54a^3b^*c^4*h^2*j^*l + \\
&18a^3b^*c^4*g^2*k^*m + 36a^4b^*c^3*g^*l^*m^2 + 36a^4b^*c^3*h*k^*m^2 - 54a^ \\
&4b^*c^3*h^*l^2*m + 18a^3b^4c^*k^*l^*m^2 - 90a^2b^2c^4*f*g*h^*m - 90a^2b^ \\
&2c^4*d*f^*l^*m + 72a^2b^2c^4*d*h^*j^*m - 18a^2b^2c^4*d*h^*k^*l - 90a^2b^ \\
&2c^4*e*f^*k^*m + 72a^2b^2c^4*e*g^*j^*m - 18a^2b^2c^4*e*g^*k^*l - 36a^2b^ \\
&2c^4*e*h^*j^*l - 72a^2b^2c^4*f*g^*j^*l - 72a^2b^2c^4*f*h^*j^*k + 90a^2b^
\end{aligned}$$

$$\begin{aligned}
& 3c^3f*g*1*m + 90a^2b^3c^3f*h*k*m - 9a^2b^3c^3g*h*k*1 + 90a^2b^3 \\
& *c^3f*j*k*1 - 108a^2b^4c^2f*k*1*m + 18a^2b^4c^2g*j*1*m + 18a^2b^4 \\
& 4c^2h*j*k*m + 162a^3b^2c^3f*k*1*m - 72a^3b^2c^3g*j*1*m - 72a^3b^2 \\
& ^2c^3h*j*k*m + 72a^3b^3c^2j*k*1*m - 72a*b*c^6d*e*f*j + 18a*b^6c*f \\
& *k*1*m + 90a*b^2c^5d*e*f*m - 18a*b^2c^5d*e*g*1 - 18a*b^2c^5d*e*h*k \\
& - 36a*b^2c^5d*f*g*k - 9a*b^3c^4d*g*h*1 + 36a*b^3c^4e*f*h*1 - 9a* \\
& b^3c^4e*g*h*k - 18a*b^3c^4f*g*h*j - 108a^2b*c^5e*f*h*1 + 72a^2b*c \\
& ^5f*g*h*j - 72a*b^3c^4d*e*j*m + 36a*b^3c^4d*e*k*1 - 18a*b^3c^4d*f \\
& *j*1 - 18a*b^3c^4e*f*j*k - 36a^2b*c^5d*e*k*1 + 72a^2b*c^5d*f*j*1 + \\
& 36a^2b*c^5d*g*j*k + 72a^2b*c^5e*f*j*k + 18a*b^4c^3f*g*h*m + 18a* \\
& b^4c^3d*f*1*m - 18a*b^4c^3d*h*j*m + 9a*b^4c^3d*h*k*1 + 18a*b^4c^3 \\
& *e*f*k*m - 18a*b^4c^3e*g*j*m + 9a*b^4c^3e*g*k*1 + 18a*b^4c^3f*g*j* \\
& 1 + 18a*b^4c^3f*h*j*k - 18a*b^5c^2f*g*1*m - 18a*b^5c^2f*h*k*m + 36 \\
& *a^3b*c^4e*h*1*m - 72a^3b*c^4f*g*1*m - 72a^3b*c^4f*h*k*m - 18a*b^5 \\
& *c^2f*j*k*1 - 72a^3b*c^4f*j*k*1 - 18a^2b^5c*j*k*1*m)/c^3 + (x*(6*c^8 \\
& *d^4 + 3*b^8*d*m^3 - 6*a^2*c^6*g^4 + 6*a^4*c^4*k^4 + 3*a*b^2*c^5*g^4 - 18*a \\
& *c^7*e^2*f^2 - 6*b^2*c^6*d*f^3 - 12*a^2*c^6*d*h^3 - 3*b^3*c^5*d*g^3 - 9*b^2 \\
& *c^6*e^3*g + 3*b^4*c^4*d*h^3 - 24*a^3*c^5*d*k^3 - 3*b^5*c^3*d*j^3 + 12*b^2* \\
& c^6*d^3*k + 3*b^6*c^2*d*k^3 - 12*a^2*c^6*f^3*k + 24*a^3*c^5*g*j^3 - 12*a^4* \\
& c^4*d*m^3 + 9*b^3*c^5*e^3*k + 12*a^3*c^5*h^3*k - 24*a^4*c^4*g*1^3 + 3*a^2*b \\
& ^6*k*m^3 + 12*a^5*c^3*k*m^3 + 9*b^2*c^6*d^2*g^2 + 9*b^2*c^6*e^2*f^2 + 3*a^2 \\
& *b^4*c^2*k^4 - 12*a^3b^2*c^3*k^4 + 18*a^2*c^6*f^2*h^2 + 36*a^2*c^6*d^2*k^2 \\
& + 18*a^2*c^6*e^2*j^2 + 9*b^4*c^4*d^2*k^2 + 9*b^4*c^4*e^2*j^2 - 18*a^3*c^5* \\
& e^2*m^2 - 18*a^3*c^5*f^2*1^2 - 18*a^3*c^5*h^2*j^2 + 9*b^6*c^2*e^2*m^2 + 18* \\
& a^4*c^4*h^2*m^2 + 18*a^4*c^4*j^2*1^2 - 18*a^5*c^3*1^2*m^2 + 12*a*c^7*d*f^3 \\
& + 6*b*c^7*d*e^3 + 24*a*c^7*e^3*g - 12*b*c^7*d^3*g - 24*a*c^7*d^3*k - 3*b^7* \\
& c*d*1^3 - 3*a*b^7*g*m^3 + 6*a*b*c^6*f^3*g - 36*a*c^7*d*e^2*h - 30*a*b*c^6*e \\
& ^3*k - 24*a*b^6*c*d*m^3 + 36*a*c^7*d^2*e*j + 3*a*b^6*c*g*1^3 - 9*b^7*c*d*j* \\
& m^2 + 81*a^2b^2*c^4*e^2*m^2 + 9a^2b^2c^4f^2*1^2 - 27*a^2b^2c^4g^2*k \\
& ^2 + 9a^2b^2c^4h^2*j^2 + 9a^2b^4c^2h^2*m^2 - 36*a^3b^2c^3h^2*m^2 \\
& + 9a^4b^2c^2*1^2*m^2 - 12a*b^2c^5d*h^3 + 24a*b^3c^4d*j^3 - 42a^2 \\
& *b*c^5d*j^3 - 3a*b^3c^4g*h^3 - 18a*b^4c^3d*k^3 + 18a^2b*c^5g*h^3 \\
& + 21a*b^5c^2d*1^3 + 30a^3b*c^4d*1^3 - 9b^3c^5d*e*h^2 + 3a*b^4c^3 \\
& *g*j^3 - 9a*b^3c^4g^3*k - 3a*b^5c^2g*k^3 + 24a^2b*c^5g^3*k + 36a^ \\
& 2*c^6d*f*j^2 + 12a^3b*c^4g*k^3 - 9b^2c^6d^2*e*j + 9b^3c^5d*f^2*j \\
& + 9b^3c^5e^2*g*h + 21a^2b^5c*g*m^3 + 36a^2c^6e*g^2*j - 6a^4b*c^3 \\
& *g*m^3 - 18b^3c^5e^2*f*j - 9b^5c^3d*e*1^2 - 36a^2c^6d*f^2*m + 36a \\
& ^2c^6e*f^2*1 + 18a^3b*c^4j^3*k + 36a^3c^5d*f*m^2 + 9b^3c^5d^2*e* \\
& m - 18b^3c^5d^2*g*k + 9b^3c^5d^2*h*j + 9b^4c^4d*g^2*k - 9b^5c^3* \\
& d*g*k^2 + 36a^2c^6e^2*f*m - 72a^2c^6e^2*g*1 + 36a^2c^6e^2*h*k - 36 \\
& *a^3c^5d*h*1^2 + 72a^3c^5e*g*1^2 - 9b^4c^4d*f^2*m - 3a^2b^5c*k*1 \\
& ^3 - 6a^4b*c^3k*1^3 + 18b^4c^4e^2*f*m - 9b^4c^4e^2*g*1 - 9b^4c^4 \\
& *e^2*h*k - 9b^5c^3d*h^2*1 + 9b^6c^2d*h*1^2 - 36a^2c^6d^2*j*1 - 18* \\
& a^3b^4c*k*m^3 + 36a^3c^5e*j*k^2 - 9b^4c^4d^2*h*m - 36a^3c^5d*j^2 \\
& *m - 36a^3c^5e*j^2*1 - 36a^3c^5f*h^2*m - 36a^3c^5f*j^2*k - 9b^4c
\end{aligned}$$

$$\begin{aligned}
&^4*d^2*j*1 + 9*b^6*c^2*d*j^2*m - 36*a^3*c^5*g^2*j*1 - 18*b^5*c^3*e^2*j*m + \\
&9*b^5*c^3*e^2*k*1 + 36*a^3*c^5*f^2*k*m + 36*a^4*c^4*e*1*m^2 - 36*a^4*c^4*f* \\
&k*m^2 + 9*b^5*c^3*d^2*1*m + 36*a^4*c^4*f*1^2*m + 36*a^4*c^4*h*k*1^2 - 36*a^ \\
&4*c^4*j*k^2*1 + 36*a^4*c^4*j^2*k*m - 36*a*b^2*c^5*d^2*k^2 - 36*a*b^2*c^5*e^ \\
&2*j^2 + 36*a^2*b^2*c^4*d*k^3 - 42*a^2*b^3*c^3*d*1^3 - 21*a^2*b^2*c^4*g*j^3 \\
&+ 51*a^2*b^4*c^2*d*m^3 - 12*a^3*b^2*c^3*d*m^3 - 54*a*b^4*c^3*e^2*m^2 + 9*a* \\
&b^4*c^3*g^2*k^2 + 6*a^2*b^3*c^3*g*k^3 - 6*a^2*b^2*c^4*h^3*k - 18*a^2*b^4*c^ \\
&2*g*1^3 + 27*a^3*b^2*c^3*g*1^3 - 33*a^3*b^3*c^2*g*m^3 - 3*a^2*b^3*c^3*j^3*k \\
&+ 15*a^3*b^3*c^2*k*1^3 + 18*a^4*b^2*c^2*k*m^3 + 9*b^7*c*d*k*1*m - 18*a^2*b \\
&^2*c^4*d*f*m^2 + 72*a^2*b^2*c^4*d*h*1^2 - 63*a^2*b^2*c^4*e*g*1^2 - 9*a^2*b^ \\
&2*c^4*e*j*k^2 + 90*a^2*b^3*c^3*e*h*m^2 + 144*a^2*b^2*c^4*d*j^2*m + 18*a^2*b \\
&^2*c^4*e*j^2*1 + 18*a^2*b^2*c^4*f*h^2*m - 45*a^2*b^2*c^4*g*h^2*1 - 153*a^2*b \\
&b^3*c^3*d*j*m^2 + 45*a^2*b^3*c^3*g*h*1^2 + 36*a^2*b^2*c^4*g^2*h*m + 9*a^2*b \\
&^3*c^3*e*k*1^2 + 45*a^2*b^2*c^4*g^2*j*1 + 9*a^2*b^3*c^3*e*k^2*m + 9*a^2*b^3 \\
&*c^3*h*j*k^2 - 18*a^2*b^2*c^4*f^2*k*m + 63*a^2*b^3*c^3*g*j^2*m + 18*a^2*b^4 \\
&*c^2*e*1*m^2 - 63*a^2*b^4*c^2*g*j*m^2 - 72*a^3*b^2*c^3*e*1*m^2 + 99*a^3*b^2 \\
&*c^3*g*j*m^2 - 18*a^2*b^3*c^3*h^2*j*m + 9*a^2*b^4*c^2*h*k*1^2 - 54*a^3*b^2* \\
&c^3*h*k*1^2 - 45*a^2*b^3*c^3*g^2*1*m - 9*a^2*b^4*c^2*h*k^2*m + 36*a^3*b^2*c \\
&^3*h*k^2*m - 9*a^2*b^4*c^2*j*k^2*1 + 45*a^3*b^2*c^3*j*k^2*1 - 18*a^3*b^3*c^ \\
&2*h*1*m^2 + 9*a^2*b^4*c^2*j^2*k*m - 54*a^3*b^2*c^3*j^2*k*m + 54*a^3*b^3*c^2 \\
&*j*k*m^2 - 45*a^3*b^3*c^2*k^2*1*m + 54*a*b*c^6*d*e*h^2 - 18*a*b*c^6*e*f^2*h \\
&- 18*a*b*c^6*d*f^2*j - 18*a*b*c^6*e^2*g*h + 18*a*b*c^6*d*e^2*1 + 54*a*b*c^ \\
&6*e^2*f*j - 36*a*b*c^6*d^2*e*m + 36*a*b*c^6*d^2*g*k - 36*a*b*c^6*d^2*h*j + \\
&9*b^3*c^5*d*e*g*j + 72*a^2*c^6*d*e*h*1 - 72*a^2*c^6*e*f*h*j - 72*a^2*c^6*d* \\
&e*j*k - 9*b^4*c^4*d*e*g*m + 18*b^4*c^4*d*e*h*1 - 9*b^4*c^4*d*g*h*j - 9*b^4*c \\
&^4*d*e*j*k + 9*a*b^6*c*g*j*m^2 + 9*b^5*c^3*d*g*h*m + 9*b^5*c^3*d*e*k*m + 9 \\
&*b^5*c^3*d*g*j*1 + 9*b^5*c^3*d*h*j*k - 72*a^3*c^5*e*f*1*m + 72*a^3*c^5*e*h \\
&j*m - 72*a^3*c^5*e*h*k*1 + 72*a^3*c^5*f*h*j*1 + 72*a^3*c^5*d*j*k*1 - 9*b^6* \\
&c^2*d*g*1*m - 9*b^6*c^2*d*h*k*m - 9*b^6*c^2*d*j*k*1 - 72*a^4*c^4*h*j*1*m - \\
&18*a*b^2*c^5*d*f*j^2 - 9*a*b^2*c^5*e*g*h^2 + 54*a*b^3*c^4*d*e*1^2 - 54*a^2* \\
&b*c^5*d*e*1^2 - 18*a*b^2*c^5*d*g^2*k - 9*a*b^2*c^5*e*g^2*j + 36*a*b^3*c^4*d \\
&*g*k^2 - 36*a^2*b*c^5*d*g*k^2 + 36*a*b^2*c^5*d*f^2*m - 9*a*b^2*c^5*f^2*g*j \\
&- 18*a*b^3*c^4*e*h*j^2 + 54*a^2*b*c^5*e*h*j^2 + 18*a^2*b*c^5*f*g*j^2 - 72*a \\
&*b^2*c^5*e^2*f*m + 45*a*b^2*c^5*e^2*g*1 + 18*a*b^2*c^5*e^2*h*k + 45*a*b^3*c \\
&^4*d*h^2*1 + 18*a*b^3*c^4*e*h^2*k - 54*a*b^4*c^3*d*h*1^2 + 9*a*b^4*c^3*e*g* \\
&1^2 - 18*a^2*b*c^5*d*h^2*1 - 54*a^2*b*c^5*e*h^2*k - 18*a^2*b*c^5*f*h^2*j + \\
&36*a*b^2*c^5*d^2*h*m + 9*a*b^3*c^4*e*g^2*m + 9*a*b^3*c^4*g^2*h*j - 36*a^2*b \\
&*c^5*e*g^2*m - 36*a^2*b*c^5*g^2*h*j + 45*a*b^2*c^5*d^2*j*1 + 9*a*b^3*c^4*f^ \\
&2*g*m - 18*a*b^5*c^2*e*h*m^2 - 18*a^2*b*c^5*f^2*g*m - 18*a^2*b*c^5*f^2*h*1 \\
&- 90*a^3*b*c^4*e*h*m^2 + 18*a^3*b*c^4*f*g*m^2 - 72*a*b^4*c^3*d*j^2*m + 9*a* \\
&b^4*c^3*g*h^2*1 + 72*a*b^5*c^2*d*j*m^2 - 9*a*b^5*c^2*g*h*1^2 + 18*a^2*b*c^5 \\
&*f^2*j*k + 54*a^3*b*c^4*d*j*m^2 - 18*a^3*b*c^4*g*h*1^2 + 90*a*b^3*c^4*e^2*j \\
&*m - 45*a*b^3*c^4*e^2*k*1 - 9*a*b^4*c^3*g^2*h*m - 90*a^2*b*c^5*e^2*j*m + 54 \\
&*a^2*b*c^5*e^2*k*1 - 18*a^3*b*c^4*e*k*1^2 - 18*a^3*b*c^4*f*j*1^2 - 45*a*b^3 \\
&*c^4*d^2*1*m - 9*a*b^4*c^3*g^2*j*1 + 36*a^2*b*c^5*d^2*1*m - 36*a^3*b*c^4*e*
\end{aligned}$$

$$\begin{aligned}
& k^2m - 36a^3b^2c^4h^2jk^2 - 9a^2b^5c^2g^2j^2m - 90a^3b^2c^4g^2j^2m - \\
& 18a^3b^2c^4h^2j^2m + 54a^3b^2c^4h^2j^2m + 18a^3b^2c^4h^2k^2m + 9a^2b^5c^2g^2j^2m + 36a^3b^2c^4g^2j^2m + 54a^4b^2c^3h^2m^2 - 9a^2b^5c^2g^2j^2m^2 - 54a^4b^2c^3j^2k^2m^2 - 18a^4b^2c^3j^2k^2m^2 + 9a^2b^5c^2k^2m^2 + 36a^4b^2c^3k^2m^2 - 36a^2b^2c^4d^2g^2m^2 - 72a^2b^2c^4d^2h^2k^2m^2 + 36a^2b^2c^4e^2f^2m^2 + 36a^2b^2c^4e^2g^2k^2m^2 - 144a^2b^2c^4e^2h^2j^2m^2 + 72a^2b^2c^4e^2h^2k^2m^2 - 18a^2b^2c^4f^2g^2j^2m^2 + 36a^2b^2c^4g^2h^2j^2k^2m^2 - 126a^2b^2c^4d^2j^2k^2m^2 - 36a^2b^2c^4d^2g^2h^2k^2m^2 + 126a^2b^2c^4d^2k^2m^2 - 36a^2b^2c^4e^2j^2k^2m^2 - 45a^2b^2c^4g^2j^2k^2m^2 + 45a^2b^2c^4g^2k^2m^2 - 36a^2b^2c^4d^2g^2k^2m^2 + 36a^2b^2c^4d^2h^2j^2k^2m^2 - 36a^2b^2c^4d^2h^2k^2m^2 - 9a^2b^2c^4e^2g^2k^2m^2 + 36a^2b^2c^4e^2d^2e^2g^2m^2 - 108a^2b^2c^4e^2d^2e^2h^2m^2 + 36a^2b^2c^4e^2d^2g^2h^2j^2m^2 + 36a^2b^2c^4e^2f^2h^2j^2m^2 + 54a^2b^2c^4e^2d^2e^2j^2k^2m^2 - 36a^2b^2c^4d^2g^2h^2m^2 - 36a^2b^2c^4e^2f^2h^2m^2 + 108a^2b^2c^4e^2f^2h^2m^2 + 36a^2b^2c^4e^2g^2h^2m^2 - 54a^2b^2c^4d^2e^2k^2m^2 + 18a^2b^2c^4d^2f^2j^2m^2 - 45a^2b^2c^4d^2g^2j^2m^2 - 54a^2b^2c^4d^2h^2j^2k^2m^2 + 9a^2b^2c^4e^2g^2j^2k^2m^2 + 72a^2b^2c^4e^2d^2e^2k^2m^2 - 36a^2b^2c^4e^2d^2f^2j^2m^2 + 36a^2b^2c^4e^2d^2g^2j^2m^2 + 72a^2b^2c^4e^2d^2h^2j^2k^2m^2 - 36a^2b^2c^4e^2f^2j^2k^2m^2 - 36a^2b^2c^4e^2g^2j^2k^2m^2 + 45a^2b^2c^4d^2g^2k^2m^2 + 54a^2b^2c^4d^2h^2k^2m^2 - 9a^2b^2c^4e^2g^2k^2m^2 + 36a^2b^2c^4e^2h^2j^2m^2 - 18a^2b^2c^4e^2h^2k^2m^2 - 9a^2b^2c^4d^2g^2h^2j^2k^2m^2 + 63a^2b^2c^4d^2j^2k^2m^2 + 9a^2b^2c^4e^2d^2g^2h^2k^2m^2 - 36a^2b^2c^4d^2f^2h^2m^2 - 63a^2b^2c^4e^2d^2k^2m^2 + 9a^2b^2c^4e^2d^2g^2j^2k^2m^2 - 72a^2b^2c^4d^2k^2m^2 + 108a^2b^2c^4e^2j^2k^2m^2 + 36a^2b^2c^4d^2f^2j^2k^2m^2 + 36a^2b^2c^4d^2g^2j^2k^2m^2)) / c^3) * root(34992a^4b^2c^8z^6 - 8748a^3b^4c^7z^6 + 729a^2b^6c^6z^6 - 46656a^5c^9z^6 + 34992a^4b^3c^6mz^5 - 8748a^3b^5c^5mz^5 + 729a^2b^7c^4mz^5 - 34992a^4b^2c^7jz^5 + 8748a^3b^4c^6jz^5 - 729a^2b^6c^5jz^5 - 46656a^5b^2c^7mz^5 + 46656a^5c^8jz^5 + 34992a^5b^2c^6jz^5 - 11664a^5b^2c^6kz^5 + 3888a^4b^2c^7fz^5 + 3888a^4b^2c^7e^2kz^5 + 3888a^4b^2c^7d^2l^5 + 3888a^4b^2c^7g^2h^5 + 3888a^3b^2c^8d^2e^5z^5 + 243a^2b^5c^6d^2e^5z^5 - 25272a^4b^3c^5jz^5 + 9720a^4b^3c^5kz^5 + 6075a^3b^5c^4jz^5 - 2673a^3b^5c^4kz^5 - 486a^2b^7c^3jz^5 + 243a^2b^7c^3kz^5 - 7776a^4b^2c^6h^5kz^5 - 7776a^4b^2c^6g^5l^5 - 7776a^4b^2c^6f^5m^5 + 2430a^3b^4c^5h^5kz^5 + 2430a^3b^4c^5g^5l^5 + 2430a^3b^4c^5f^5m^5 - 243a^2b^6c^4h^5kz^5 - 243a^2b^6c^4g^5l^5 - 243a^2b^6c^4f^5m^5 - 1944a^3b^3c^6f^5jz^5 - 1944a^3b^3c^6e^5kz^5 - 1944a^3b^3c^6d^5l^5 + 243a^2b^5c^5f^5jz^5 + 243a^2b^5c^5e^5kz^5 + 243a^2b^5c^5d^5l^5 - 1944a^3b^3c^6g^5h^5z^5 + 243a^2b^5c^5g^5h^5z^5 + 3888a^3b^2c^7e^5g^5z^5 + 3888a^3b^2c^7d^5h^5z^5 - 486a^2b^4c^6e^5g^5z^5 - 486a^2b^4c^6d^5h^5z^5 - 1944a^2b^3c^7d^5e^5z^5 + 7776a^5c^7h^5kz^5 + 7776a^5c^7g^5l^5z^5 + 7776a^5c^7f^5m^5z^5 - 7776a^4c^8e^5g^5z^5 - 7776a^4c^8d^5h^5z^5 - 13608a^5b^2c^5m^2z^4 + 11421a^4b^4c^4m^2z^4 - 2916a^3b^6c^3m^2z^4 + 243a^2b^8c^2m^2z^4 + 13608a^4b^2c^6j^2z^4 - 3159a^3b^4c^5j^2z^4 + 243a^2b^6c^4j^2z^4 + 1944a^3b^2c^7f^2z^4 - 243a^2b^4c^6f^2z^4 - 3888a^6c^6m^2z^4 - 19440a^5c^7j^2z^4 - 3888a^4c^8f^2z^4 + 3078a^4b^4c^3k^2m^2z^3 - 2592a^5b^2c^4k^2m^2z^3 - 891a^3b^6c^2k^2m^2z^3 - 4536a^4b^3c^4j^2k^2m^2z^3 + 1053a^3b^5c^3
\end{aligned}$$

$$\begin{aligned}
& *j*k*1*z^3 - 81*a^2*b^7*c^2*j*k*1*z^3 - 2592*a^4*b^3*c^4*h*k*m*z^3 - 2592*a^4*b^3*c^4*g*1*m*z^3 + 810*a^3*b^5*c^3*h*k*m*z^3 + 810*a^3*b^5*c^3*g*1*m*z^3 \\
& - 81*a^2*b^7*c^2*h*k*m*z^3 - 81*a^2*b^7*c^2*g*1*m*z^3 + 7776*a^4*b^2*c^5*f*j*m*z^3 + 3888*a^4*b^2*c^5*h*j*k*z^3 + 3888*a^4*b^2*c^5*g*j*1*z^3 - 3888*a^4*b^2*c^5*f*k*1*z^3 \\
& - 2916*a^3*b^4*c^4*f*j*m*z^3 + 1458*a^3*b^4*c^4*f*k*1*z^3 - 972*a^3*b^4*c^4*h*j*k*z^3 - 972*a^3*b^4*c^4*g*j*1*z^3 - 486*a^3*b^4*c^4*e*k*m*z^3 - 486*a^3*b^4*c^4*d*1*m*z^3 \\
& + 324*a^2*b^6*c^3*f*j*m*z^3 - 162*a^2*b^6*c^3*f*k*1*z^3 + 81*a^2*b^6*c^3*h*j*k*z^3 + 81*a^2*b^6*c^3*g*j*1*z^3 + 81*a^2*b^6*c^3*e*k*m*z^3 + 81*a^2*b^6*c^3*d*1*m*z^3 \\
& - 486*a^3*b^4*c^4*g*h*m*z^3 + 81*a^2*b^6*c^3*g*h*m*z^3 + 648*a^3*b^3*c^5*e*j*k*z^3 + 648*a^3*b^3*c^5*d*j*1*z^3 - 81*a^2*b^5*c^4*e*j*k*z^3 - 81*a^2*b^5*c^4*d*j*1*z^3 \\
& + 2592*a^3*b^3*c^5*e*g*m*z^3 + 2592*a^3*b^3*c^5*d*h*m*z^3 - 1296*a^3*b^3*c^5*f*h*k*z^3 - 1296*a^3*b^3*c^5*f*g*1*z^3 - 1296*a^3*b^3*c^5*e*h*1*z^3 + 648*a^3*b^3*c^5*g*h*j*z^3 \\
& - 324*a^2*b^5*c^4*e*g*m*z^3 - 324*a^2*b^5*c^4*d*h*m*z^3 + 162*a^2*b^5*c^4*f*h*k*z^3 + 162*a^2*b^5*c^4*f*g*1*z^3 + 162*a^2*b^5*c^4*e*h*1*z^3 - 81*a^2*b^5*c^4*g*h*j*z^3 \\
& + 5184*a^3*b^2*c^6*d*e*m*z^3 - 2592*a^3*b^2*c^6*e*g*j*z^3 - 2592*a^3*b^2*c^6*d*h*j*z^3 - 2106*a^2*b^4*c^5*d*e*m*z^3 + 1296*a^3*b^2*c^6*e*f*k*z^3 + 1296*a^3*b^2*c^6*d*g*k*z^3 \\
& + 1296*a^3*b^2*c^6*d*f*1*z^3 + 324*a^2*b^4*c^5*e*g*j*z^3 + 324*a^2*b^4*c^5*d*h*j*z^3 - 162*a^2*b^4*c^5*e*f*k*z^3 - 162*a^2*b^4*c^5*d*g*k*z^3 - 162*a^2*b^4*c^5*d*f*1*z^3 \\
& + 1296*a^3*b^2*c^6*f*g*h*z^3 - 162*a^2*b^4*c^5*f*g*h*z^3 + 1944*a^2*b^3*c^6*d*e*j*z^3 - 1296*a^2*b^2*c^7*d*e*f*z^3 + 81*a^2*b^8*c*k*1*m*z^3 + 6480*a^5*b*c^5*j*k*1*z^3 \\
& + 2592*a^5*b*c^5*h*k*m*z^3 + 2592*a^5*b*c^5*g*1*m*z^3 - 1296*a^4*b*c^6*e*j*k*z^3 - 1296*a^4*b*c^6*d*j*1*z^3 - 5184*a^4*b*c^6*e*g*m*z^3 - 5184*a^4*b*c^6*d*h*m*z^3 \\
& + 2592*a^4*b*c^6*f*h*k*z^3 + 2592*a^4*b*c^6*f*g*1*z^3 + 2592*a^4*b*c^6*e*h*1*z^3 - 1296*a^4*b*c^6*g*h*j*z^3 + 243*a*b^6*c^4*d*e*m*z^3 - 3888*a^3*b*c^7*d*e*j*z^3 \\
& - 243*a*b^5*c^5*d*e*j*z^3 + 162*a*b^4*c^6*d*e*f*z^3 - 2592*a^6*c^5*k*1*m*z^3 - 5184*a^5*c^6*h*j*k*z^3 - 5184*a^5*c^6*g*j*1*z^3 - 5184*a^5*c^6*f*j*m*z^3 \\
& + 2592*a^5*c^6*f*k*1*z^3 + 2592*a^5*c^6*e*k*m*z^3 + 2592*a^5*c^6*d*1*m*z^3 + 2592*a^5*c^6*g*h*m*z^3 + 5184*a^4*c^7*e*g*j*z^3 + 5184*a^4*c^7*d*h*j*z^3 \\
& - 2592*a^4*c^7*e*f*k*z^3 - 2592*a^4*c^7*d*g*k*z^3 - 2592*a^4*c^7*d*f*1*z^3 - 2592*a^4*c^7*d*e*m*z^3 - 2592*a^4*c^7*f*g*h*z^3 + 2592*a^3*c^8*d*e*f*z^3 \\
& + 6480*a^5*b^2*c^4*j*m^2*z^3 + 6480*a^4*b^3*c^4*j^2*m*z^3 - 5022*a^4*b^4*c^3*j*m^2*z^3 - 1296*a^3*b^5*c^3*j^2*m*z^3 + 1134*a^3*b^6*c^2*j*m^2*z^3 \\
& + 81*a^2*b^7*c^2*j^2*m*z^3 + 2592*a^4*b^3*c^4*h*1^2*z^3 - 1944*a^4*b^2*c^5*h^2*1*z^3 - 810*a^3*b^5*c^3*h*1^2*z^3 + 729*a^3*b^4*c^4*h^2*1*z^3 \\
& + 81*a^2*b^7*c^2*h*1^2*z^3 - 81*a^2*b^6*c^3*h^2*1*z^3 - 5184*a^4*b^3*c^4*f*m^2*z^3 + 1620*a^3*b^5*c^3*f*m^2*z^3 + 1296*a^3*b^3*c^5*f^2*m*z^3 \\
& - 162*a^2*b^7*c^2*f*m^2*z^3 - 162*a^2*b^5*c^4*f^2*m*z^3 - 1944*a^4*b^2*c^5*g*k^2*z^3 + 729*a^3*b^4*c^4*g*k^2*z^3 - 648*a^3*b^3*c^5*g^2*k*z^3 \\
& - 81*a^2*b^6*c^3*g*k^2*z^3 + 81*a^2*b^5*c^4*g^2*k*z^3 - 1944*a^4*b^2*c^5*e*1^2*z^3 + 729*a^3*b^4*c^4*e*1^2*z^3 + 648*a^3*b^2*c^6*e^2*1*z^3 \\
& - 81*a^2*b^6*c^3*e*1^2*z^3 - 81*a^2*b^4*c^5*e^2*1*z^3 + 1296*a^3*b^3*c^5*f*j^2*z^3 - 1296*a^3*b^2*c^6*f^2*j*z^3 - 162*a^2*b^5*c^4*f*j^2*z^3 \\
& + 162*a^2*b^4*c^5*f^2*j*z^3 - 648*a^3*b^3*c^5*d*k^2*z^3 + 81*a^2*b^5*c^4*d*k^2*z^3
\end{aligned}$$

$$\begin{aligned}
& + 648a^3b^2c^6e^*h^2z^3 - 81a^2b^4c^5e^*h^2z^3 - 648a^2b^2c^7d^2g^*z^3 - 10368a^5b^*c^5j^2m^*z^3 - 81a^2b^8c^*j^*m^2z^3 - 2592a^5b^*c^5h^*l^2z^3 + 5184a^5b^*c^5f^*m^2z^3 - 2592a^4b^*c^6f^2m^*z^3 + 1296a^4b^*c^6g^2k^*z^3 - 2592a^4b^*c^6f^*j^2z^3 + 1296a^4b^*c^6d^*k^2z^3 + 81a^*b^4c^6d^2g^*z^3 + 2592a^6c^5j^*m^2z^3 + 1296a^5c^6h^2l^*z^3 + 1296a^5c^6g^*k^2z^3 + 1296a^5c^6e^*l^2z^3 - 1296a^4c^7e^2l^*z^3 + 2592a^4c^7f^2j^*z^3 - 2592a^6b^*c^4m^3z^3 - 324a^3b^7c^*m^3z^3 - 27a^2b^8c^*l^3z^3 - 1296a^4c^7e^*h^2z^3 - 864a^5b^*c^5k^3z^3 + 1296a^3c^8d^2g^*z^3 + 432a^4b^*c^6h^3z^3 + 27a^*b^4c^6e^3z^3 - 432a^2b^*c^8d^3z^3 + 216a^*b^3c^7d^3z^3 + 1134a^4b^5c^2m^3z^3 - 432a^5b^3c^3m^3z^3 + 1512a^5b^2c^4l^3z^3 - 1107a^4b^4c^3l^3z^3 + 297a^3b^6c^2l^3z^3 + 864a^4b^3c^4k^3z^3 - 270a^3b^5c^3k^3z^3 + 27a^2b^7c^2k^3z^3 - 2592a^4b^2c^5j^3z^3 + 486a^3b^4c^4j^3z^3 - 27a^2b^6c^3j^3z^3 - 216a^3b^3c^5h^3z^3 + 27a^2b^5c^4h^3z^3 + 216a^3b^2c^6g^3z^3 - 27a^2b^4c^5g^3z^3 - 216a^2b^2c^7e^3z^3 - 432a^6c^5l^3z^3 + 27a^2b^9m^3z^3 + 4320a^5c^6j^3z^3 - 432a^4c^7g^3z^3 + 432a^3c^8e^3z^3 - 27b^5c^6d^3z^3 + 81a^3b^6c^*j^*k^*l^*m^z^2 - 1296a^5b^*c^4h^*j^*k^*m^z^2 - 1296a^5b^*c^4g^*j^*l^*m^z^2 + 1296a^5b^*c^4f^*k^*l^*m^z^2 - 81a^2b^7c^*f^*k^*l^*m^z^2 + 2592a^4b^*c^5e^*g^*j^*m^z^2 + 2592a^4b^*c^5d^*h^*j^*m^z^2 - 1296a^4b^*c^5f^*h^*j^*k^*z^2 - 1296a^4b^*c^5f^*g^*j^*l^*z^2 - 1296a^4b^*c^5e^*f^*k^*m^z^2 - 1296a^4b^*c^5d^*f^*l^*m^z^2 - 648a^4b^*c^5e^*h^*j^*l^*z^2 - 648a^4b^*c^5e^*g^*k^*l^*z^2 - 648a^4b^*c^5d^*h^*k^*l^*z^2 - 648a^4b^*c^5d^*g^*k^*m^z^2 - 1296a^4b^*c^5f^*g^*h^*m^z^2 - 162a^*b^6c^3d^*e^*j^*m^z^2 + 81a^*b^6c^3d^*e^*k^*l^*z^2 + 1296a^3b^*c^6d^*e^*f^*m^z^2 - 648a^3b^*c^6d^*f^*g^*k^*z^2 - 648a^3b^*c^6d^*e^*h^*k^*z^2 - 648a^3b^*c^6d^*e^*g^*l^*z^2 - 81a^*b^5c^4d^*e^*h^*k^*z^2 - 81a^*b^5c^4d^*e^*g^*l^*z^2 + 81a^*b^5c^4d^*e^*f^*m^z^2 - 81a^*b^4c^5d^*e^*f^*j^*z^2 + 81a^*b^4c^5d^*e^*g^*h^*z^2 + 648a^5b^2c^3j^*k^*l^*m^z^2 - 567a^4b^4c^2j^*k^*l^*m^z^2 - 1944a^4b^3c^3f^*k^*l^*m^z^2 + 729a^3b^5c^2f^*k^*l^*m^z^2 + 648a^4b^3c^3h^*j^*k^*m^z^2 + 648a^4b^3c^3g^*j^*l^*m^z^2 - 81a^3b^5c^2h^*j^*k^*m^z^2 - 81a^3b^5c^2g^*j^*l^*m^z^2 + 1944a^4b^2c^4f^*j^*k^*l^*z^2 - 729a^3b^4c^3f^*j^*k^*l^*z^2 + 648a^4b^2c^4e^*j^*k^*m^z^2 + 648a^4b^2c^4d^*j^*l^*m^z^2 - 81a^3b^4c^3e^*j^*k^*m^z^2 - 81a^3b^4c^3d^*j^*l^*m^z^2 + 81a^2b^6c^2f^*j^*k^*l^*z^2 + 1296a^4b^2c^4f^*h^*k^*m^z^2 + 1296a^4b^2c^4f^*g^*l^*m^z^2 + 648a^4b^2c^4g^*h^*j^*m^z^2 - 648a^3b^4c^3f^*h^*k^*m^z^2 - 648a^3b^4c^3f^*g^*l^*m^z^2 - 324a^4b^2c^4g^*h^*k^*l^*z^2 - 324a^4b^2c^4e^*h^*l^*m^z^2 + 81a^3b^4c^3g^*h^*k^*l^*z^2 - 81a^3b^4c^3g^*h^*j^*m^z^2 + 81a^2b^6c^2f^*h^*k^*m^z^2 + 81a^2b^6c^2f^*g^*l^*m^z^2 - 1296a^3b^3c^4e^*g^*j^*m^z^2 - 1296a^3b^3c^4d^*h^*j^*m^z^2 + 648a^3b^3c^4f^*h^*j^*k^*z^2 + 648a^3b^3c^4f^*g^*j^*l^*z^2 + 648a^3b^3c^4e^*f^*k^*m^z^2 + 648a^3b^3c^4d^*f^*l^*m^z^2 + 486a^3b^3c^4e^*g^*k^*l^*z^2 + 486a^3b^3c^4d^*h^*k^*l^*z^2 + 162a^3b^3c^4e^*h^*j^*l^*z^2 + 162a^3b^3c^4d^*g^*k^*m^z^2 + 162a^2b^5c^3e^*g^*j^*m^z^2 + 162a^2b^5c^3d^*h^*j^*m^z^2 - 81a^2b^5c^3f^*h^*j^*k^*z^2 - 81a^2b^5c^3f^*g^*j^*l^*z^2 - 81a^2b^5c^3e^*g^*k^*l^*z^2 - 81a^2b^5c^3e^*f^*k^*m^z^2 - 81a^2b^5c^3d^*h^*k^*l^*z^2 - 81a^2b^5c^3d^*f^*l^*m^z^2 + 648a^3b^3c^4f^*g^*h^*m^z^2 - 81a^2b^5c^3
\end{aligned}$$

$$\begin{aligned}
& c^3 f g h m z^2 - 3240 a^3 b^2 c^5 d e j m z^2 + 1620 a^3 b^2 c^5 d e k l z \\
& ^2 + 1377 a^2 b^4 c^4 d e j m z^2 - 648 a^3 b^2 c^5 e f j k z^2 - 648 a^3 b \\
& ^2 c^5 d f j l z^2 - 648 a^2 b^4 c^4 d e k l z^2 - 324 a^3 b^2 c^5 d g j k z \\
& z^2 + 81 a^2 b^4 c^4 e f j k z^2 + 81 a^2 b^4 c^4 d f j l z^2 + 972 a^3 b^2 \\
& * c^5 e f h l z^2 - 648 a^3 b^2 c^5 f g h j z^2 - 324 a^3 b^2 c^5 e g h k z^2 \\
& - 324 a^3 b^2 c^5 d g h l z^2 - 162 a^2 b^4 c^4 e f h l z^2 + 81 a^2 b^4 c \\
& ^4 f g h j z^2 + 81 a^2 b^4 c^4 e g h k z^2 + 81 a^2 b^4 c^4 d g h l z^2 - \\
& 648 a^2 b^3 c^5 d e f m z^2 + 486 a^2 b^3 c^5 d e h k z^2 + 486 a^2 b^3 c^5 \\
& d e g l z^2 + 162 a^2 b^3 c^5 d f g k z^2 + 648 a^2 b^2 c^6 d e f j z^2 - \\
& 324 a^2 b^2 c^6 d e g h z^2 - 1296 a^6 b c^3 k l m^2 z^2 - 81 a^4 b^5 c k k \\
& l m^2 z^2 - 1296 a^5 b c^4 j^2 k l z^2 - 324 a^5 b c^4 h^2 l m z^2 + 324 a^5 \\
& b c^4 h k^2 l z^2 - 324 a^5 b c^4 g k^2 m z^2 + 972 a^5 b c^4 h j l^2 z^2 \\
& + 324 a^5 b c^4 g k l^2 z^2 - 324 a^5 b c^4 e l^2 m z^2 - 324 a^4 b c^5 e^ \\
& 2 l m z^2 - 1944 a^5 b c^4 f j m^2 z^2 + 1296 a^5 b c^4 e k m^2 z^2 + 1296 a \\
& ^5 b c^4 d l m^2 z^2 + 648 a^4 b c^5 f^2 j m z^2 + 81 a^2 b^7 c f j m^2 z^2 \\
& + 1296 a^5 b c^4 g h m^2 z^2 - 324 a^4 b c^5 g^2 j k z^2 + 324 a^4 b c^5 g \\
& ^2 h l z^2 + 972 a^4 b c^5 f h^2 l z^2 + 324 a^4 b c^5 g h^2 k z^2 - 324 a \\
& ^4 b c^5 e h^2 m z^2 - 324 a^4 b c^5 d j k^2 z^2 - 324 a^3 b c^6 d^2 j k z^2 \\
& + 972 a^4 b c^5 f g k^2 z^2 + 972 a^3 b c^6 d^2 g m z^2 + 324 a^4 b c^5 e \\
& * h k^2 z^2 + 324 a^3 b c^6 d^2 h l z^2 + 81 a b^5 c^4 d^2 g m z^2 + 972 a^4 \\
& * b c^5 e f l^2 z^2 + 324 a^4 b c^5 d g l^2 z^2 - 324 a^3 b c^6 e^2 h j z^2 \\
& + 324 a^3 b c^6 e^2 g k z^2 - 324 a^3 b c^6 e^2 f l z^2 - 1296 a^4 b c^5 d e \\
& m^2 z^2 + 81 a b^7 c^2 d e m^2 z^2 - 324 a^3 b c^6 d g^2 j z^2 - 81 a b^4 \\
& * c^5 d^2 g j z^2 + 81 a b^4 c^5 d^2 e l z^2 + 324 a^3 b c^6 e g^2 h z^2 + 8 \\
& 1 a b^4 c^5 d e^2 k z^2 + 1296 a^3 b c^6 d e j^2 z^2 - 324 a^3 b c^6 e f h^ \\
& 2 z^2 + 324 a^3 b c^6 d g h^2 z^2 + 81 a b^5 c^4 d e j^2 z^2 - 324 a^2 b c^ \\
& 7 d^2 f g z^2 + 324 a^2 b c^7 d^2 e h z^2 + 81 a b^3 c^6 d^2 f g z^2 - 81 a \\
& * b^3 c^6 d^2 e h z^2 + 324 a^2 b c^7 d e^2 g z^2 - 81 a b^3 c^6 d e^2 g z^2 \\
& + 1296 a^6 c^4 j k l m z^2 - 1296 a^5 c^5 f j k l z^2 - 1296 a^5 c^5 e j k \\
& * m z^2 - 1296 a^5 c^5 d j l m z^2 - 1296 a^5 c^5 g h j m z^2 + 1296 a^5 c^5 \\
& * e h l m z^2 + 1296 a^4 c^6 e f j k z^2 + 1296 a^4 c^6 d g j k z^2 + 1296 a \\
& ^4 c^6 d f j l z^2 - 1296 a^4 c^6 d e k l z^2 + 1296 a^4 c^6 d e j m z^2 + \\
& 1296 a^4 c^6 f g h j z^2 - 1296 a^4 c^6 e f h l z^2 - 1296 a^3 c^7 d e f j \\
& z^2 + 648 a^5 b^3 c^2 k l m^2 z^2 + 648 a^4 b^3 c^3 j^2 k l z^2 + 486 a^5 b \\
& ^2 c^3 h l^2 m z^2 - 81 a^4 b^4 c^2 h l^2 m z^2 + 81 a^4 b^3 c^3 h^2 l m z^2 \\
& - 81 a^3 b^5 c^2 j^2 k l z^2 - 162 a^4 b^2 c^4 g^2 k m z^2 - 81 a^4 b^3 c^ \\
& ^3 h k^2 l z^2 + 81 a^4 b^3 c^3 g k^2 m z^2 - 567 a^4 b^3 c^3 h j l^2 z^2 + \\
& 486 a^4 b^2 c^4 h^2 j l z^2 - 81 a^4 b^3 c^3 g k l^2 z^2 + 81 a^4 b^3 c^3 \\
& e l^2 m z^2 + 81 a^3 b^5 c^2 h j l^2 z^2 - 81 a^3 b^4 c^3 h^2 j l z^2 + 81 a \\
& ^3 b^3 c^4 e^2 l m z^2 + 2430 a^4 b^3 c^3 f j m^2 z^2 - 2268 a^4 b^2 c^4 f \\
& * j^2 m z^2 - 810 a^3 b^5 c^2 f j m^2 z^2 + 810 a^3 b^4 c^3 f j^2 m z^2 - 64 \\
& 8 a^4 b^3 c^3 e k m^2 z^2 - 648 a^4 b^3 c^3 d l m^2 z^2 - 648 a^4 b^2 c^4 h \\
& * j^2 k z^2 - 648 a^4 b^2 c^4 g j^2 l z^2 - 162 a^3 b^3 c^4 f^2 j m z^2 + 81 \\
& * a^3 b^5 c^2 e k m^2 z^2 + 81 a^3 b^5 c^2 d l m^2 z^2 + 81 a^3 b^4 c^3 h j^ \\
& 2 k z^2 + 81 a^3 b^4 c^3 g j^2 l z^2 - 81 a^2 b^6 c^2 f j^2 m z^2 - 648 a^4
\end{aligned}$$

$$\begin{aligned}
& *b^3*c^3*g*h*m^2*z^2 + 486*a^4*b^2*c^4*g*j*k^2*z^2 - 486*a^4*b^2*c^4*e*k^2* \\
& l*z^2 + 486*a^3*b^2*c^5*d^2*k*m*z^2 - 162*a^4*b^2*c^4*d*k^2*m*z^2 + 81*a^3* \\
& b^5*c^2*g*h*m^2*z^2 - 81*a^3*b^4*c^3*g*j*k^2*z^2 + 81*a^3*b^4*c^3*e*k^2*l*z \\
& ^2 + 81*a^3*b^3*c^4*g^2*j*k*z^2 - 81*a^2*b^4*c^4*d^2*k*m*z^2 + 486*a^4*b^2* \\
& c^4*e*j*l^2*z^2 - 486*a^4*b^2*c^4*d*k*l^2*z^2 - 162*a^3*b^2*c^5*e^2*j*l*z^2 \\
& - 81*a^3*b^4*c^3*e*j*l^2*z^2 + 81*a^3*b^4*c^3*d*k*l^2*z^2 - 81*a^3*b^3*c^4 \\
& *g^2*h*l*z^2 - 1458*a^4*b^2*c^4*f*h*l^2*z^2 + 648*a^3*b^4*c^3*f*h*l^2*z^2 - \\
& 567*a^3*b^3*c^4*f*h^2*l*z^2 + 486*a^3*b^2*c^5*e^2*h*m*z^2 - 81*a^3*b^3*c^4 \\
& *g*h^2*k*z^2 + 81*a^3*b^3*c^4*e*h^2*m*z^2 - 81*a^2*b^6*c^2*f*h*l^2*z^2 + 81 \\
& *a^2*b^5*c^3*f*h^2*l*z^2 - 81*a^2*b^4*c^4*e^2*h*m*z^2 - 1296*a^4*b^2*c^4*e* \\
& g*m^2*z^2 - 1296*a^4*b^2*c^4*d*h*m^2*z^2 + 648*a^3*b^4*c^3*e*g*m^2*z^2 + 64 \\
& 8*a^3*b^4*c^3*d*h*m^2*z^2 + 81*a^3*b^3*c^4*d*j*k^2*z^2 - 81*a^2*b^6*c^2*e*g \\
& *m^2*z^2 - 81*a^2*b^6*c^2*d*h*m^2*z^2 + 81*a^2*b^3*c^5*d^2*j*k*z^2 - 567*a^ \\
& 3*b^3*c^4*f*g*k^2*z^2 - 567*a^2*b^3*c^5*d^2*g*m*z^2 + 486*a^3*b^2*c^5*f*g^2 \\
& *k*z^2 - 486*a^3*b^2*c^5*e*g^2*l*z^2 + 486*a^3*b^2*c^5*d*g^2*m*z^2 - 81*a^3 \\
& *b^3*c^4*e*h*k^2*z^2 + 81*a^2*b^5*c^3*f*g*k^2*z^2 - 81*a^2*b^4*c^4*f*g^2*k* \\
& z^2 + 81*a^2*b^4*c^4*e*g^2*l*z^2 - 81*a^2*b^4*c^4*d*g^2*m*z^2 - 81*a^2*b^3* \\
& c^5*d^2*h*l*z^2 - 567*a^3*b^3*c^4*e*f*l^2*z^2 - 486*a^3*b^2*c^5*d*h^2*k*z^2 \\
& - 162*a^3*b^2*c^5*e*h^2*j*z^2 - 81*a^3*b^3*c^4*d*g*l^2*z^2 + 81*a^2*b^5*c^ \\
& 3*e*f*l^2*z^2 + 81*a^2*b^4*c^4*d*h^2*k*z^2 + 81*a^2*b^3*c^5*e^2*h*j*z^2 - 8 \\
& 1*a^2*b^3*c^5*e^2*g*k*z^2 + 81*a^2*b^3*c^5*e^2*f*l*z^2 + 1944*a^3*b^3*c^4*d \\
& *e*m^2*z^2 - 729*a^2*b^5*c^3*d*e*m^2*z^2 + 648*a^3*b^2*c^5*e*g*j^2*z^2 + 64 \\
& 8*a^3*b^2*c^5*d*h*j^2*z^2 - 81*a^2*b^4*c^4*e*g*j^2*z^2 - 81*a^2*b^4*c^4*d*h \\
& *j^2*z^2 + 486*a^3*b^2*c^5*d*f*k^2*z^2 + 486*a^2*b^2*c^6*d^2*g*j*z^2 - 486* \\
& a^2*b^2*c^6*d^2*e*l*z^2 - 162*a^2*b^2*c^6*d^2*f*k*z^2 - 81*a^2*b^4*c^4*d*f* \\
& k^2*z^2 + 81*a^2*b^3*c^5*d*g^2*j*z^2 - 486*a^2*b^2*c^6*d*e^2*k*z^2 - 81*a^2 \\
& *b^3*c^5*e*g^2*h*z^2 - 648*a^2*b^3*c^5*d*e*j^2*z^2 - 162*a^2*b^2*c^6*e^2*f* \\
& h*z^2 + 81*a^2*b^3*c^5*e*f*h^2*z^2 - 81*a^2*b^3*c^5*d*g*h^2*z^2 - 162*a^2*b \\
& ^2*c^6*d*f*g^2*z^2 - 189*a^5*b^3*c^2*l^3*m*z^2 + 162*a^5*b^2*c^3*k^3*m*z^2 \\
& - 27*a^4*b^4*c^2*k^3*m*z^2 - 702*a^4*b^3*c^3*j^3*m*z^2 - 81*a^3*b^6*c*j^2*m \\
& ^2*z^2 + 81*a^3*b^5*c^2*j^3*m*z^2 - 54*a^5*b^3*c^2*j*m^3*z^2 - 486*a^5*b^2* \\
& c^3*j*l^3*z^2 + 216*a^4*b^4*c^2*j*l^3*z^2 - 189*a^4*b^3*c^3*j*k^3*z^2 - 54* \\
& a^4*b^2*c^4*h^3*m*z^2 + 27*a^3*b^5*c^2*j*k^3*z^2 + 27*a^3*b^3*c^4*g^3*m*z^2 \\
& - 810*a^4*b^4*c^2*f*m^3*z^2 + 540*a^5*b^2*c^3*f*m^3*z^2 - 324*a^3*b^2*c^5* \\
& f^3*m*z^2 + 54*a^2*b^4*c^4*f^3*m*z^2 + 675*a^4*b^3*c^3*f*l^3*z^2 - 243*a^3* \\
& b^5*c^2*f*l^3*z^2 - 189*a^2*b^3*c^5*e^3*m*z^2 + 27*a^3*b^3*c^4*h^3*j*z^2 - \\
& 486*a^4*b^2*c^4*f*k^3*z^2 - 486*a^2*b^2*c^6*d^3*m*z^2 + 216*a^3*b^4*c^3*f*k \\
& ^3*z^2 - 54*a^3*b^2*c^5*g^3*j*z^2 - 27*a^2*b^6*c^2*f*k^3*z^2 - 270*a^3*b^3* \\
& c^4*f*j^3*z^2 - 54*a^2*b^3*c^5*f^3*j*z^2 + 27*a^2*b^5*c^3*f*j^3*z^2 + 162*a \\
& ^2*b^2*c^6*e^3*j*z^2 + 162*a^3*b^2*c^5*f*h^3*z^2 - 27*a^2*b^4*c^4*f*h^3*z^2 \\
& + 27*a^2*b^3*c^5*f*g^3*z^2 + 81*a*b^2*c^7*d^2*e^2*z^2 - 648*a^6*c^4*h*l^2* \\
& m*z^2 + 648*a^5*c^5*g^2*k*m*z^2 - 648*a^5*c^5*h^2*j*l*z^2 + 1296*a^5*c^5*h* \\
& j^2*k*z^2 + 1296*a^5*c^5*g*j^2*l*z^2 + 1296*a^5*c^5*f*j^2*m*z^2 - 648*a^5*c \\
& ^5*g*j*k^2*z^2 + 648*a^5*c^5*e*k^2*l*z^2 + 648*a^5*c^5*d*k^2*m*z^2 - 648*a^ \\
& 4*c^6*d^2*k*m*z^2 - 648*a^5*c^5*e*j*l^2*z^2 + 648*a^5*c^5*d*k*l^2*z^2 + 648
\end{aligned}$$

$$\begin{aligned}
& a^4c^6e^2j^1lz^2 + 324a^6b^3c^1l^3m^2z^2 + 27a^4b^5c^1l^3m^2z^2 + 648a^5c^5f^1h^2z^2 - 648a^4c^6e^2h^1m^2z^2 + 1512a^5b^3c^4j^3m^2z^2 \\
& + 1080a^6b^3c^3j^3m^3z^2 - 162a^4b^5c^3j^3m^3z^2 - 648a^4c^6f^1g^2k^1z^2 + 648a^4c^6e^1g^2l^1z^2 - 648a^4c^6d^1g^2m^2z^2 - 27a^3b^6c^3j^1 \\
& ^3z^2 + 648a^4c^6e^1h^2j^1z^2 + 648a^4c^6d^1h^2k^1z^2 + 324a^5b^3c^4j^1k^3z^2 - 1296a^4c^6e^1g^2j^2z^2 - 1296a^4c^6d^1h^2j^2z^2 - 108a^4b \\
& ^5c^3g^3m^2z^2 - 648a^4c^6d^1f^1k^2z^2 - 648a^3c^7d^2g^1j^1z^2 + 648a^3c^7d^2f^1k^1z^2 + 648a^3c^7d^2e^1l^1z^2 + 270a^3b^6c^3f^1m^3z^2 + 648 \\
& ^3c^7d^2e^2k^1z^2 - 540a^5b^3c^4f^1l^3z^2 + 324a^3b^3c^6e^3m^2z^2 - 108a^4b^3c^5h^3j^1z^2 + 27a^2b^7c^3f^1l^3z^2 + 27a^3b^5c^4e^3m^2z^2 + \\
& 648a^3c^7e^2f^1h^1z^2 + 216a^4b^3c^5d^3m^2z^2 + 648a^4b^3c^5f^1j^3z^2 + 216a^3b^3c^6f^1j^3z^2 + 648a^3c^7d^1f^1g^2z^2 - 27a^3b^4c^5e^3j^1 \\
& z^2 + 324a^2b^3c^7d^3j^1z^2 - 189a^3b^3c^6d^3j^1z^2 - 108a^3b^3c^6f^1g^3z^2 - 108a^2b^3c^7e^3f^1z^2 + 27a^3b^3c^6e^3f^1z^2 + 162a^3b^2c^7d^3f^1z^2 \\
& - 1134a^5b^2c^3j^2m^2z^2 + 648a^4b^4c^2j^2m^2z^2 + 81a^5b^2c^3k^2l^2z^2 + 162a^4b^2c^4f^2m^2z^2 + 81a^4b^2c^4h^2k^2z^2 + 81a^4b^2c^4g^2l^2z^2 + 162a^3b^2c^5f^2j^2z^2 + 81a^3 \\
& ^3b^2c^5e^2k^2z^2 + 81a^3b^2c^5d^2l^2z^2 + 81a^3b^2c^5g^2h^2z^2 + 81a^2b^2c^6e^2g^2z^2 + 81a^2b^2c^6d^2h^2z^2 - 216a^6c^4k^3m^2z^2 + 216a^6c^4j^1l^3z^2 + 27a^3b^7j^1m^3z^2 + 216a^5c^5h^3 \\
& ^3m^2z^2 + 432a^6c^4f^1m^3z^2 + 432a^4c^6f^3m^2z^2 - 27b^6c^4d^3m^2z^2 - 27a^2b^8f^1m^3z^2 + 216a^5c^5f^1k^3z^2 + 216a^4c^6g^3j^1z^2 + 216a^3c^7d^3m^2z^2 + 216a^5b^4c^4m^4z^2 - 216a^3c^7e^3j^1z^2 + 27 \\
& ^3b^5c^5d^3j^1z^2 - 216a^4c^6f^1h^3z^2 - 27b^4c^6d^3f^1z^2 - 216a^2c^8d^3f^1z^2 - 648a^6c^4j^2m^2z^2 - 324a^6c^4k^2l^2z^2 - 648a^5c^5f^2m^2z^2 - 324a^5c^5h^2k^2z^2 - 324a^5c^5g^2l^2z^2 - 648 \\
& ^4c^6f^2j^2z^2 - 324a^4c^6e^2k^2z^2 - 324a^4c^6d^2l^2z^2 - 405a^6b^2c^2m^4z^2 - 324a^4c^6g^2h^2z^2 - 324a^3c^7e^2g^2z^2 - 324a^3c^7d^2h^2z^2 + 243a^4b^2c^4j^4z^2 - 27a^3b^4c^3j^4z^2 \\
& ^2 - 324a^2c^8d^2e^2z^2 + 27a^2b^2c^6f^4z^2 - 108a^7c^3m^4z^2 - 27a^4b^6m^4z^2 - 540a^5c^5j^4z^2 - 108a^3c^7f^4z^2 - 216a^5b^3c^3f^1j^1k^1m^2z^2 - 54a^3b^5c^3f^1j^1k^1m^2z^2 + 27a^3b^5c^3g^1h^1k^1m^2z^2 - 27a^2b^6c^3e^1g^1k^1m^2z^2 - 27a^2b^6c^3d^1h^1k^1m^2z^2 + 432a^4b^3c^4d^1g^1j^1k^1m^2z^2 - 432a^4b^3c^4d^1e^1k^1m^2z^2 + 216a^4b^3c^4e^1g^1j^1k^1m^2z^2 + 216a^4b^3c^4e^1f^1j^1k^1m^2z^2 + 216a^4b^3c^4d^1h^1j^1k^1m^2z^2 + 216a^4b^3c^4d^1f^1j^1k^1m^2z^2 + 216a^4b^3c^4f^1g^1h^1j^1k^1m^2z^2 - 27a^3b^6c^2d^1e^1j^1k^1m^2z^2 - 27a^3b^6c^2d^1e^1h^1k^1m^2z^2 - 27a^3b^6c^2d^1e^1g^1l^1m^2z^2 + 216a^3b^3c^5d^1e^1h^1j^1k^1m^2z^2 + 216a^3b^3c^5d^1e^1g^1j^1k^1m^2z^2 - 216a^3b^3c^5d^1e^1f^1j^1k^1m^2z^2 + 27a^3b^5c^3d^1e^1h^1j^1k^1m^2z^2 + 27a^3b^5c^3d^1e^1g^1j^1k^1m^2z^2 + 27a^3b^5c^3d^1e^1g^1h^1m^2z^2 - 27a^3b^4c^4d^1e^1g^1h^1j^1k^1m^2z^2 + 27a^3b^7c^4d^1e^1k^1l^1m^2z^2 + 270a^4b^3c^2f^1j^1k^1l^1m^2z^2 - 108a^4b^3c^2g^1h^1k^1l^1m^2z^2 - 216a^4b^2c^3f^1h^1j^1k^1l^1m^2z^2 - 216a^4b^2c^3f^1g^1j^1k^1l^1m^2z^2 - 216a^4b^2c^3e^1g^1k^1l^1m^2z^2 - 216a^4b^2c^3d^1h^1k^1l^1m^2z^2 + 162a^3b^4c^2e^1g^1k^1l^1m^2z^2 + 162a^3b^4c^2d^1h^1k^1l^1m^2z^2 + 108a^4b^2c^3g^1h^1j^1k^1l^1m^2z^2 + 108a^4b^2c^3e^1h^1j^1k^1l^1m^2z^2 + 54a^3b^4c^2f^1h^1j^1k^1l^1m^2z^2 + 54a^3b^4c^2f^1g^1j^1k^1l^1m^2z^2 - 27a^3b^4c^2g^1h^1j^1k^1l^1m^2z^2 + 540a^3b^3c^3d^1e^1k^1l^1m^2z^2 - 216a^2b^
\end{aligned}$$

$$\begin{aligned}
& 5*c^2*d*e*k*1*m*z - 162*a^3*b^3*c^3*e*g*j*k*1*z - 162*a^3*b^3*c^3*d*h*j*k*1 \\
& *z - 108*a^3*b^3*c^3*d*g*j*k*m*z - 54*a^3*b^3*c^3*e*f*j*k*m*z - 54*a^3*b^3* \\
& c^3*d*f*j*1*m*z + 27*a^2*b^5*c^2*e*g*j*k*1*z + 27*a^2*b^5*c^2*d*h*j*k*1*z - \\
& 108*a^3*b^3*c^3*e*g*h*k*m*z - 108*a^3*b^3*c^3*d*g*h*1*m*z - 54*a^3*b^3*c^3 \\
& *f*g*h*j*m*z + 27*a^2*b^5*c^2*e*g*h*k*m*z + 27*a^2*b^5*c^2*d*g*h*1*m*z - 54 \\
& 0*a^3*b^2*c^4*d*e*j*k*1*z + 216*a^2*b^4*c^3*d*e*j*k*1*z - 216*a^3*b^2*c^4*d \\
& *e*h*k*m*z - 216*a^3*b^2*c^4*d*e*g*1*m*z + 162*a^2*b^4*c^3*d*e*h*k*m*z + 16 \\
& 2*a^2*b^4*c^3*d*e*g*1*m*z + 108*a^3*b^2*c^4*e*g*h*j*k*z - 108*a^3*b^2*c^4*e \\
& *f*h*j*1*z + 108*a^3*b^2*c^4*d*g*h*j*1*z + 108*a^3*b^2*c^4*d*f*g*k*m*z - 27 \\
& *a^2*b^4*c^3*e*g*h*j*k*z - 27*a^2*b^4*c^3*d*g*h*j*1*z - 162*a^2*b^3*c^4*d*e \\
& *h*j*k*z - 162*a^2*b^3*c^4*d*e*g*j*1*z + 54*a^2*b^3*c^4*d*e*f*j*m*z - 108*a \\
& ^2*b^3*c^4*d*e*g*h*m*z + 108*a^2*b^2*c^5*d*e*g*h*j*z + 324*a^6*b*c^2*j*k*1* \\
& m^2*z - 81*a^5*b^3*c*j*k*1*m^2*z + 27*a^4*b^4*c*j^2*k*1*m*z - 27*a^4*b^4*c* \\
& h*k^2*1*m*z - 27*a^4*b^4*c*g*k*1^2*m*z + 216*a^5*b*c^3*h*j^2*k*m*z + 216*a^ \\
& 5*b*c^3*g*j^2*1*m*z + 54*a^4*b^4*c*f*k*1*m^2*z + 27*a^4*b^4*c*h*j*k*m^2*z + \\
& 27*a^4*b^4*c*g*j*1*m^2*z + 27*a^2*b^6*c*f^2*k*1*m*z + 216*a^5*b*c^3*e*k^2* \\
& 1*m*z - 108*a^5*b*c^3*h*j*k^2*1*z + 27*a^3*b^5*c*e*k^2*1*m*z + 216*a^5*b*c^ \\
& 3*d*k*1^2*m*z + 216*a^4*b*c^4*e^2*j*1*m*z - 108*a^5*b*c^3*g*j*k*1^2*z + 27* \\
& a^3*b^5*c*d*k*1^2*m*z - 324*a^5*b*c^3*e*j*k*m^2*z - 324*a^5*b*c^3*d*j*1*m^2 \\
& *z - 216*a^5*b*c^3*f*h*1^2*m*z - 108*a^4*b*c^4*f^2*j*k*1*z - 27*a^3*b^5*c*e \\
& *j*k*m^2*z - 27*a^3*b^5*c*d*j*1*m^2*z - 324*a^5*b*c^3*g*h*j*m^2*z + 216*a^5 \\
& *b*c^3*f*h*k*m^2*z + 216*a^5*b*c^3*f*g*1*m^2*z + 216*a^5*b*c^3*e*h*1*m^2*z \\
& - 216*a^4*b*c^4*f^2*h*k*m*z - 216*a^4*b*c^4*f^2*g*1*m*z - 27*a^3*b^5*c*g*h* \\
& j*m^2*z + 216*a^4*b*c^4*e*g^2*1*m*z - 108*a^4*b*c^4*g^2*h*j*1*z - 216*a^4*b \\
& *c^4*f*h^2*j*1*z + 216*a^4*b*c^4*e*h^2*j*m*z + 216*a^4*b*c^4*d*h^2*k*m*z - \\
& 108*a^4*b*c^4*g*h^2*j*k*z - 432*a^4*b*c^4*e*g*j^2*m*z - 432*a^4*b*c^4*d*h*j \\
& ^2*m*z + 216*a^4*b*c^4*f*h*j^2*k*z + 216*a^4*b*c^4*f*g*j^2*1*z + 27*a^2*b^6 \\
& *c*e*g*j*m^2*z + 27*a^2*b^6*c*d*h*j*m^2*z - 432*a^3*b*c^5*d^2*g*j*m*z - 216 \\
& *a^4*b*c^4*f*g*j*k^2*z + 216*a^3*b*c^5*d^2*f*k*m*z + 216*a^3*b*c^5*d^2*e*1* \\
& m*z - 108*a^4*b*c^4*e*h*j*k^2*z - 108*a^4*b*c^4*d*g*k^2*1*z - 108*a^3*b*c^5 \\
& *d^2*h*j*1*z + 108*a^3*b*c^5*d^2*g*k*1*z - 54*a*b^5*c^3*d^2*g*j*m*z + 27*a* \\
& b^5*c^3*d^2*g*k*1*z + 27*a*b^5*c^3*d^2*e*1*m*z - 216*a^4*b*c^4*e*f*j*1^2*z \\
& + 216*a^3*b*c^5*d*e^2*k*m*z - 108*a^4*b*c^4*d*g*j*1^2*z - 108*a^3*b*c^5*e^2 \\
& *g*j*k*z + 27*a*b^5*c^3*d*e^2*k*m*z + 324*a^4*b*c^4*d*e*j*m^2*z + 216*a^3*b \\
& *c^5*e^2*f*h*m*z - 108*a^4*b*c^4*e*g*h*1^2*z + 108*a^3*b*c^5*e^2*g*h*1*z + \\
& 108*a^3*b*c^5*e*f^2*j*k*z + 108*a^3*b*c^5*d*f^2*j*1*z + 27*a*b^6*c^2*d*e*j^ \\
& 2*m*z - 216*a^3*b*c^5*e*f^2*h*1*z + 108*a^3*b*c^5*f^2*g*h*j*z - 27*a*b^4*c^ \\
& 4*d^2*e*j*1*z + 216*a^3*b*c^5*d*f*g^2*m*z - 108*a^3*b*c^5*e*g^2*h*j*z + 54* \\
& a*b^4*c^4*d^2*f*g*m*z - 27*a*b^4*c^4*d^2*g*h*k*z - 27*a*b^4*c^4*d^2*e*h*m*z \\
& - 27*a*b^4*c^4*d*e^2*j*k*z - 108*a^3*b*c^5*d*g*h^2*j*z + 54*a*b^4*c^4*d*e^ \\
& 2*h*1*z + 27*a*b^6*c^2*d*e*h*1^2*z - 27*a*b^5*c^3*d*e*h^2*1*z - 27*a*b^4*c^ \\
& 4*d*e^2*g*m*z - 27*a*b^4*c^4*d*e*f^2*m*z + 216*a^2*b*c^6*d^2*f*g*j*z - 108* \\
& a^3*b*c^5*d*e*g*k^2*z - 108*a^2*b*c^6*d^2*e*h*j*z + 108*a^2*b*c^6*d^2*e*g*k \\
& *z - 54*a*b^3*c^5*d^2*f*g*j*z - 27*a*b^5*c^3*d*e*g*k^2*z + 27*a*b^4*c^4*d*e \\
& *g^2*k*z + 27*a*b^3*c^5*d^2*e*h*j*z - 27*a*b^3*c^5*d^2*e*g*k*z - 108*a^2*b*
\end{aligned}$$

$$\begin{aligned}
& c^6 d e^2 g j^* z + 27 a^* b^3 c^5 d e^2 g j^* z - 108 a^2 b^* c^6 d e^2 f^2 j^* z + 27 \\
& a^* b^3 c^5 d e^2 f^2 j^* z - 432 a^5 c^4 e^2 h^* j^* l^* m^* z + 432 a^4 c^5 d e^2 j^* k^* l^* z \\
& + 432 a^4 c^5 e^2 f^* h^* j^* l^* z - 432 a^4 c^5 d^2 f^* g^* k^* m^* z - 27 a^* b^7 c^d e^2 j^* m^2 z \\
& - 54 a^5 b^2 c^2 j^2 k^* l^* m^* z + 108 a^5 b^2 c^2 h^* k^2 l^* m^* z + 108 a^5 b^2 c^2 \\
& g^* k^* l^2 m^* z - 54 a^5 b^2 c^2 h^* j^* l^2 m^* z + 378 a^4 b^2 c^3 f^2 k^* l^* m^* z \\
& - 270 a^5 b^2 c^2 f^* k^* l^* m^2 z - 189 a^3 b^4 c^2 f^2 k^* l^* m^* z - 108 a^5 b^2 c^2 \\
& h^* j^* k^* m^2 z - 108 a^5 b^2 c^2 g^* j^* l^* m^2 z - 54 a^4 b^3 c^2 h^* j^2 k^* m^* z - \\
& 54 a^4 b^3 c^2 g^* j^2 l^* m^* z - 162 a^4 b^3 c^2 e^* k^2 l^* m^* z + 54 a^4 b^2 c^3 \\
& g^2 j^* k^* m^* z + 27 a^4 b^3 c^2 h^* j^* k^2 l^* z - 162 a^4 b^3 c^2 d^* k^* l^2 m^* z + 10 \\
& 8 a^4 b^2 c^3 g^2 h^* l^* m^* z - 54 a^3 b^3 c^3 e^2 j^* l^* m^* z + 27 a^4 b^3 c^2 g^* j^* \\
& k^* l^2 z - 27 a^3 b^4 c^2 g^2 h^* l^* m^* z - 270 a^4 b^2 c^3 f^* j^2 k^* l^* z + 189 a^4 \\
& b^3 c^2 e^* j^* k^* m^2 z + 189 a^4 b^3 c^2 d^* j^* l^* m^2 z - 162 a^4 b^2 c^3 e^* j^2 \\
& k^* m^* z - 162 a^4 b^2 c^3 d^* j^2 l^* m^* z + 135 a^3 b^3 c^3 f^2 j^* k^* l^* z + 108 a^4 \\
& b^2 c^3 g^* h^2 k^* m^* z + 54 a^4 b^3 c^2 f^* h^* l^2 m^* z - 54 a^4 b^2 c^3 f^* h^2 k^* \\
& l^* m^* z + 54 a^3 b^4 c^2 f^* j^2 k^* l^* z - 27 a^3 b^4 c^2 g^* h^2 k^* m^* z + 27 a^3 b^4 \\
& c^2 e^* j^2 k^* m^* z + 27 a^3 b^4 c^2 d^* j^2 l^* m^* z - 27 a^2 b^5 c^2 f^2 j^* k^* l^* z \\
& - 270 a^3 b^2 c^4 d^2 j^* k^* m^* z + 189 a^4 b^3 c^2 g^* h^* j^* m^2 z - 162 a^4 b^2 c^3 \\
& g^* h^* j^2 m^* z + 162 a^4 b^2 c^3 e^* j^* k^2 l^* z + 162 a^3 b^3 c^3 f^2 h^* k^* m^* z \\
& + 162 a^3 b^3 c^3 f^2 g^* l^* m^* z - 54 a^4 b^3 c^2 f^* h^* k^* m^2 z - 54 a^4 b^3 c^2 \\
& f^* g^* l^* m^2 z - 54 a^4 b^3 c^2 e^* h^* l^* m^2 z + 54 a^4 b^2 c^3 d^* j^* k^2 m^* z + 5 \\
& 4 a^2 b^4 c^3 d^2 j^* k^* m^* z + 27 a^3 b^4 c^2 g^* h^* j^2 m^* z - 27 a^3 b^4 c^2 e^* j^* \\
& k^2 l^* z - 27 a^2 b^5 c^2 f^2 h^* k^* m^* z - 27 a^2 b^5 c^2 f^2 g^* l^* m^* z + 162 a^4 \\
& b^2 c^3 d^* j^* k^* l^2 z - 162 a^3 b^3 c^3 e^* g^2 l^* m^* z + 108 a^4 b^2 c^3 e^* h^* k^* \\
& l^2 m^* z + 108 a^3 b^2 c^4 d^2 h^* l^* m^* z - 54 a^4 b^2 c^3 f^* g^* k^2 m^* z - 27 a^3 b^4 \\
& c^2 e^* h^* k^2 m^* z - 27 a^3 b^4 c^2 d^* j^* k^* l^2 z + 27 a^3 b^3 c^3 g^2 h^* j^* l^* \\
& z + 27 a^2 b^5 c^2 e^* g^2 l^* m^* z - 27 a^2 b^4 c^3 d^2 h^* l^* m^* z + 270 a^4 b^2 c^3 \\
& f^* h^* j^* l^2 z - 270 a^3 b^2 c^4 e^2 h^* j^* m^* z - 162 a^4 b^2 c^3 e^* h^* k^* l^2 z \\
& - 162 a^3 b^3 c^3 d^* h^2 k^* m^* z + 162 a^3 b^2 c^4 e^2 h^* k^* l^* z + 108 a^4 b^2 c^3 \\
& d^* g^* l^2 m^* z + 108 a^3 b^2 c^4 e^2 g^* k^* m^* z - 54 a^4 b^2 c^3 e^* f^* l^2 m^* z \\
& - 54 a^3 b^4 c^2 f^* h^* j^* l^2 z + 54 a^3 b^3 c^3 f^* h^2 j^* l^* z - 54 a^3 b^3 c^3 e^* h^2 \\
& j^* m^* z + 54 a^3 b^2 c^4 e^2 f^* l^* m^* z + 54 a^2 b^4 c^3 e^2 h^* j^* m^* z + 27 a^3 b^4 \\
& c^2 e^* h^* k^* l^2 z - 27 a^3 b^4 c^2 d^* g^* l^2 m^* z + 27 a^3 b^3 c^3 g^* h^2 \\
& j^* k^* z + 27 a^2 b^5 c^2 d^* h^2 k^* m^* z - 27 a^2 b^4 c^3 e^2 h^* k^* l^* z - 27 a^2 b^4 \\
& c^3 e^2 g^* k^* m^* z + 432 a^4 b^2 c^3 e^* g^* j^* m^2 z + 432 a^4 b^2 c^3 d^* h^* j^* m^2 z \\
& - 270 a^4 b^2 c^3 d^* g^* k^* m^2 z - 216 a^3 b^4 c^2 e^* g^* j^* m^2 z - 216 a^3 b^4 \\
& c^2 d^* h^* j^* m^2 z + 216 a^3 b^3 c^3 e^* g^* j^2 m^* z + 216 a^3 b^3 c^3 d^* h^* j^2 m^* \\
& z - 162 a^3 b^2 c^4 e^* f^2 k^* m^* z - 162 a^3 b^2 c^4 d^* f^2 l^* m^* z - 108 a^3 b^2 \\
& c^4 f^2 h^* j^* k^* z - 108 a^3 b^2 c^4 f^2 g^* j^* l^* z + 54 a^4 b^2 c^3 e^* f^* k^* m^2 z \\
& + 54 a^4 b^2 c^3 d^* f^* l^* m^2 z + 54 a^3 b^4 c^2 d^* g^* k^* m^2 z - 54 a^3 b^3 c^3 \\
& f^* h^* j^2 k^* z - 54 a^3 b^3 c^3 f^* g^* j^2 l^* z - 27 a^2 b^5 c^2 e^* g^* j^2 m^* z - \\
& 27 a^2 b^5 c^2 d^* h^* j^2 m^* z + 27 a^2 b^4 c^3 f^2 h^* j^* k^* z + 27 a^2 b^4 c^3 f^2 \\
& g^* j^* l^* z + 27 a^2 b^4 c^3 e^* f^2 k^* m^* z + 27 a^2 b^4 c^3 d^* f^2 l^* m^* z + 324 a^2 \\
& b^3 c^4 d^2 g^* j^* m^* z - 270 a^3 b^2 c^4 d^* g^2 j^* m^* z - 162 a^3 b^2 c^4 f^2 g^* \\
& h^* m^* z + 162 a^3 b^2 c^4 e^* g^2 j^* l^* z - 162 a^2 b^3 c^4 d^2 e^* l^* m^* z - 135 a^2 \\
& b^3 c^4 d^2 g^* k^* l^* z + 108 a^3 b^2 c^4 d^* g^2 k^* l^* z + 54 a^4 b^2 c^3 f^* g^* h
\end{aligned}$$

$$\begin{aligned}
& m^2z + 54a^3b^3c^3f*g*j*k^2z - 54a^3b^2c^4f*g^2*j*kz + 54a^2b^4c^3d*g^2*j*mz - 54a^2b^3c^4d^2f*k*mz + 27a^3b^3c^3e*h*j*k^2z \\
& z + 27a^3b^3c^3d*g*k^2*1z + 27a^2b^4c^3f^2*g*h*mz - 27a^2b^4c^3e*g^2*j*1z - 27a^2b^4c^3d*g^2*k*1z + 27a^2b^3c^4d^2h*j*1z + 1 \\
& 62a^3b^2c^4d*h^2*j*kz - 162a^2b^3c^4d*e^2*k*mz + 108a^3b^2c^4e*g^2*h*mz + 54a^3b^3c^3e*f*j*1^2z + 27a^3b^3c^3d*g*j*1^2z - 27a^2b^4c^3e*g^2*h*mz \\
& - 27a^2b^4c^3d*h^2*j*kz + 27a^2b^3c^4e^2*g*j*kz - 621a^3b^3c^3d*e*j*m^2z + 594a^3b^2c^4d*e*j^2*mz + 243a^2b^5c^2d*e*j*m^2z - 243a^2b^4c^3d*e*j^2*mz \\
& + 135a^3b^3c^3e*g*h*1^2z - 108a^3b^2c^4e*g*h^2*1z + 108a^3b^2c^4d*g*h^2*mz + 54a^3b^2c^4e*f*j^2*kz + 54a^3b^2c^4e*f*h^2*mz + 54a^3b^2c^4d*g*j^2*kz \\
& + 54a^3b^2c^4d*f*j^2*1z - 54a^2b^3c^4e^2*f*h*mz - 27a^2b^5c^2e*g*h*1^2z + 27a^2b^4c^3e*g*h^2*1z - 27a^2b^4c^3d*g*h^2*mz - 27a^2b^3c^4e^2*g*h*1z \\
& - 27a^2b^3c^4e*f^2*j*kz - 27a^2b^3c^4d*f^2*j*1z + 162a^2b^2c^5d^2e*j*1z + 54a^3b^2c^4f*g*h*j^2z - 54a^3b^2c^4d*f*j*k^2z + 54a^2b^3c^4e*f^2*h*1z \\
& + 54a^2b^2c^5d^2f*j*kz - 27a^2b^3c^4f^2*g*h*jz - 270a^2b^2c^5d^2f*g*mz - 162a^3b^2c^4d*g*h*k^2z + 162a^2b^2c^5d^2g*h*kz + 162a^2b^2c^5d*e^2*j*kz \\
& + 108a^2b^2c^5d^2e*h*mz - 54a^2b^3c^4d*f*g^2*mz + 27a^2b^4c^3d*g*h*k^2z + 27a^2b^3c^4e*g^2*h*jz + 270a^3b^2c^4d*e*h*1^2z - 270a^2b^2c^5d*e^2*h*1z \\
& - 162a^2b^4c^3d*e*h*1^2z + 108a^2b^3c^4d*e*h^2*1z + 108a^2b^2c^5d*e^2*g*mz + 54a^2b^2c^5e^2*f*h*jz + 27a^2b^3c^4d*g*h^2*jz + 162a^2b^2c^5d*e*f^2*mz \\
& - 54a^3b^2c^4d*e*f*m^2z - 54a^2b^2c^5d*f^2*g*kz + 135a^2b^3c^4d*e*g*k^2z - 108a^2b^2c^5d*e*g^2*kz + 54a^2b^2c^5d*f*g^2*jz - 54a^2b^2c^5d*e*f*j^2z \\
& - 9a*b^7*c*d*e*1^3z - 36a*b*c^7*d^3*e*g*z - 108a^6*b*c^2*k^2*1^2mz + 27a^5*b^3*c*k^2*1^2mz - 18a^5*b^2*c^2*j*k^3mz - 27a^4*b^3*c^2*j^3*k*1z \\
& - 108a^5*b*c^3*h^2*k^2mz - 108a^5*b*c^3*g^2*1^2mz + 108a^5*b*c^3h^2*k*1^2z + 108a^5*b*c^3g^2*k*m^2z + 90a^5*b^2c^2*f*1^3mz - 18a^5*b^2c^2h*k*1^3z \\
& + 18a^4*b^2c^3h^3*k*1z + 18a^4*b^2c^3h^3*j*mz - 108a^5*b*c^3h*j^2*1^2z + 18a^4*b^3c^2*f*k^3mz - 18a^3*b^3c^3g^3*j*mz - 9a^4*b^3c^2g*k^3*1z \\
& + 9a^3b^3c^3g^3*k*1z + 252a^4*b^2c^3f*j^3mz + 216a^5*b*c^3f*j^2m^2z + 180a^3b^2c^4f^3*j*mz - 108a^4*b*c^4e^2*k^2mz - 108a^4*b*c^4d^2*1^2mz \\
& + 90a^5*b^2c^2e*k*m^3z + 90a^5*b^2c^2d*1m^3z - 90a^3b^2c^4f^3*k*1z + 54a^3b^5*c*f*j^2m^2z - 54a^3b^4c^2*f*j^3mz + 36a^5*b^2c^2*f*j*m^3z + 36a^4*b^2c^3h*j^3*kz \\
& + 36a^4*b^2c^3g*j^3*1z - 36a^2b^4c^3f^3*j*mz - 27a^2b^6*c*f^2*j*m^2z + 18a^2b^4c^3f^3*k*1z - 216a^4*b*c^4d^2*k*m^2z + 108a^5*b*c^3d*k^2m^2z \\
& - 108a^4*b^3c^2*f*j*1^3z - 108a^4*b*c^4g^2*h^2mz + 108a^2b^3c^4e^3*j*mz + 90a^5*b^2c^2g*h*m^3z + 54a^4*b^3c^2e*k*1^3z - 54a^2b^3c^4e^3*k*1z \\
& + 234a^2b^2c^5d^3*j*mz - 144a^2b^2c^5d^3*k*1z + 90a^4*b^2c^3f*j*k^3z - 72a^4*b^2c^3d*k^3*1z + 27a^4*b^3c^2g*h*1^3z - 27a^3b^3c^3g*h^3*1z \\
& - 18a^3b^4c^2*f*j*k^3z + 9a^3b^4c^2d*k^3*1z + 216a^4*b*c^4f^2*h*1^2z - 216a^4*b*c^4e^2*h*m^2z + 108a^4*b*c^4g^2*h*k^2z - 18a^4*b^2c^3g*h
\end{aligned}$$

$$\begin{aligned}
& k^3z + 18a^3b^2c^4g^3h^kz + 18a^3b^2c^4f^3g^3m^kz + 9a^3b^4c^2 \\
& *g^3h^kz - 9a^3b^3c^3e^3j^3k^kz - 9a^3b^3c^3d^3j^3l^kz - 144a^4b^ \\
& 3c^2e^3g^3m^3z - 144a^4b^3c^2d^3h^3m^3z - 108a^3b^3c^5e^2g^2m^kz + 1 \\
& 08a^3b^3c^5d^2j^2k^kz - 108a^3b^3c^5d^2h^2m^kz - 18a^2b^3c^4f^3h \\
& *k^kz - 18a^2b^3c^4f^3g^3l^kz - 9a^3b^3c^3g^3h^3j^3z - 216a^4b^3c^4d \\
& *g^2m^2z + 144a^4b^2c^3e^3g^3l^3z - 126a^3b^2c^4d^3h^3l^kz - 108a^ \\
& 4b^3c^4d^3h^2l^2z - 108a^3b^3c^5f^2g^2k^kz - 108a^3b^3c^5e^2h^2k^kz \\
& - 90a^2b^2c^5e^3f^3m^kz + 72a^2b^2c^5e^3g^3l^kz - 63a^3b^4c^2e^3g \\
& *l^3z - 36a^3b^4c^2d^3h^3l^3z + 27a^2b^4c^3d^3h^3l^kz + 27a^3b^6c^2 \\
& *d^2g^3m^2z - 18a^4b^2c^3d^3h^3l^3z - 18a^3b^2c^4f^3h^3j^kz - 18a^3 \\
& *b^2c^4e^3h^3k^kz + 18a^2b^2c^5e^3h^3k^kz + 108a^3b^3c^5e^2h^3j^2z + \\
& 54a^3b^3c^3d^3h^3k^3z + 27a^3b^3c^3e^3g^3k^3z - 27a^2b^3c^4e^3g^3 \\
& *k^kz + 27a^2b^3c^4d^3g^3l^kz - 27a^3b^4c^4d^2g^2l^kz - 9a^2b^5c^2e \\
& *g^3k^3z - 9a^2b^5c^2d^3h^3k^3z + 207a^3b^4c^2d^3e^3m^3z - 108a^2b \\
& *c^6d^2e^2m^kz - 90a^4b^2c^3d^3e^3m^3z - 72a^3b^2c^4e^3g^3j^3z - 72 \\
& *a^3b^2c^4d^3h^3j^3z + 27a^3b^3c^5d^2e^2m^kz + 18a^2b^2c^5e^3f^3k^k \\
& z + 18a^2b^2c^5d^3f^3l^kz + 9a^2b^4c^3e^3g^3j^3z + 9a^2b^4c^3d^3h^3 \\
& j^3z - 216a^3b^3c^5d^3e^2l^2z - 198a^3b^3c^3d^3e^3l^3z + 108a^3b^3c \\
& ^5d^3g^2j^2z - 108a^3b^3c^5d^3f^2k^2z + 72a^2b^5c^2d^3e^3l^3z - 27 \\
& *a^3b^5c^3d^3e^2l^2z + 27a^3b^4c^4d^2g^3j^2z + 18a^2b^2c^5f^3g^3h^kz \\
& + 144a^3b^2c^4d^3e^3k^3z - 63a^2b^4c^3d^3e^3k^3z + 27a^3b^4c^4d^2e \\
& *k^2z - 9a^2b^3c^4e^3g^3h^3z - 108a^2b^3c^6d^2g^2h^kz + 81a^2b^3c \\
& ^4d^3e^3j^3z + 27a^3b^3c^5d^2g^2h^kz - 27a^3b^2c^6d^2e^2j^kz - 18a^ \\
& 2b^2c^5d^3g^3h^kz + 108a^2b^3c^6d^3e^2h^2z - 27a^3b^3c^5d^3e^2h^2z \\
& + 27a^3b^2c^6d^2f^2g^3z - 18a^2b^2c^5d^3e^3h^3z - 216a^6c^3j^2k^3l \\
& *m^kz + 216a^6c^3h^3j^3l^2m^kz + 216a^6c^3f^3k^3l^2m^kz - 216a^5c^4f^2 \\
& *k^3l^m^kz - 216a^5c^4g^2j^3k^3m^kz + 216a^5c^4f^3j^2k^3l^m^kz + 216a^5c^4f \\
& *h^2l^m^kz + 216a^5c^4e^3j^2k^3m^kz + 216a^5c^4d^3j^2l^m^kz + 216a^5c^ \\
& 4g^3h^3j^2m^kz - 216a^5c^4e^3j^3k^2l^m^kz - 216a^5c^4d^3j^3k^2m^kz + 216a^4 \\
& *c^5d^2j^3k^3m^kz - 18a^6b^2c^3k^3l^m^3z + 216a^5c^4f^3g^3k^2m^kz - 216a^ \\
& 5c^4d^3j^3k^3l^2z - 72a^6b^3c^2j^3l^3m^kz + 18a^5b^3c^3j^3l^3m^kz - 216 \\
& *a^5c^4f^3h^3j^3l^2z + 216a^5c^4e^3h^3k^3l^2z + 216a^5c^4e^3f^3l^2m^kz - 2 \\
& 16a^4c^5e^2h^3k^3l^m^kz + 216a^4c^5e^2h^3j^3m^kz - 216a^4c^5e^2f^3l^m^kz \\
& - 216a^5c^4e^3f^3k^3m^2z + 216a^5c^4d^3g^3k^3m^2z - 216a^5c^4d^3f^3l^m^2 \\
& *z + 216a^4c^5e^3f^2k^3m^kz + 216a^4c^5d^3f^2l^m^kz + 108a^5b^3c^3j^3 \\
& *k^3l^m^kz - 216a^5c^4f^3g^3h^3m^2z + 216a^4c^5f^2g^3h^3m^kz + 216a^4c^5f^3g \\
& ^2j^3k^kz - 216a^4c^5e^3g^2j^3l^kz + 216a^4c^5d^3g^2j^3m^kz - 72a^6b^3c^2 \\
& *h^3k^3m^3z - 72a^6b^3c^2g^3l^m^3z + 54a^5b^3c^3h^3k^3m^3z + 54a^5b^3c^3 \\
& *g^3l^m^3z - 216a^4c^5d^3h^2j^3k^kz - 18a^4b^4c^3f^3l^3m^kz + 9a^4b^4c^3 \\
& *h^3k^3l^3z - 216a^4c^5e^3f^3j^2k^kz - 216a^4c^5e^3f^3h^2m^kz - 216a^4c^ \\
& 5d^3g^3j^2k^kz - 216a^4c^5d^3f^3j^2l^kz - 216a^4c^5d^3e^3j^2m^kz - 72a^5 \\
& *b^3c^3f^3k^3m^kz + 72a^4b^3c^4g^3j^3m^kz + 36a^5b^3c^3g^3k^3l^kz - 36a^4 \\
& *b^3c^4g^3k^3l^kz - 216a^4c^5f^3g^3h^3j^2z + 216a^4c^5d^3f^3j^3k^2z - 216a^ \\
& ^3c^6d^2f^3j^3k^kz - 216a^3c^6d^2e^3j^3l^kz + 72a^4b^4c^3f^3j^3m^3z - 63 \\
& *a^4b^4c^3e^3k^3m^3z - 63a^4b^4c^3d^3l^m^3z + 216a^4c^5d^3g^3h^3k^2z - 21
\end{aligned}$$

$$\begin{aligned}
& 6*a^3*c^6*d^2*g*h*k*z + 216*a^3*c^6*d^2*f*g*m*z - 216*a^3*c^6*d*e^2*j*k*z + \\
& 144*a^5*b*c^3*f*j^1^3*z - 144*a^3*b*c^5*e^3*j*m*z - 72*a^5*b*c^3*e*k^1^3*z \\
& + 72*a^3*b*c^5*e^3*k^1*z - 63*a^4*b^4*c*g*h*m^3*z + 18*a^3*b^5*c*f*j^1^3*z \\
& - 18*a*b^5*c^3*e^3*j*m*z - 9*a^3*b^5*c*e*k^1^3*z + 9*a*b^5*c^3*e^3*k^1*z - \\
& 216*a^4*c^5*d*e*h^1^2*z - 216*a^3*c^6*e^2*f*h*j*z + 216*a^3*c^6*d*e^2*h^1* \\
& z - 126*a*b^4*c^4*d^3*j*m*z + 108*a^4*b*c^4*g*h^3*1*z + 63*a*b^4*c^4*d^3*k* \\
& 1*z + 36*a^5*b*c^3*g*h^1^3*z - 9*a^3*b^5*c*g*h^1^3*z + 216*a^4*c^5*d*e*f*m^ \\
& 2*z + 216*a^3*c^6*d*f^2*g*k*z - 216*a^3*c^6*d*e*f^2*m*z + 36*a^4*b*c^4*e*j^ \\
& 3*k*z + 36*a^4*b*c^4*d*j^3*1*z - 216*a^3*c^6*d*f*g^2*j*z + 72*a^3*b^5*c*e*g \\
& *m^3*z + 72*a^3*b^5*c*d*h*m^3*z + 72*a^3*b*c^5*f^3*h*k*z + 72*a^3*b*c^5*f^3 \\
& *g*1*z + 36*a^4*b*c^4*g*h*j^3*z + 18*a*b^4*c^4*e^3*f*m*z + 9*a^2*b^6*c*e*g* \\
& 1^3*z + 9*a^2*b^6*c*d*h^1^3*z - 9*a*b^4*c^4*e^3*h*k*z - 9*a*b^4*c^4*e^3*g*1 \\
& *z + 216*a^3*c^6*d*e*f*j^2*z - 144*a^2*b*c^6*d^3*f*m*z + 108*a^3*b*c^5*e*g^ \\
& 3*k*z - 108*a^3*b*c^5*d*g^3*1*z + 108*a*b^3*c^5*d^3*f*m*z - 72*a^4*b*c^4*d* \\
& h*k^3*z + 72*a^2*b*c^6*d^3*h*k*z - 54*a*b^3*c^5*d^3*h*k*z + 36*a^4*b*c^4*e* \\
& g*k^3*z - 36*a^2*b*c^6*d^3*g*1*z - 27*a*b^3*c^5*d^3*g*1*z - 81*a^2*b^6*c*d* \\
& e*m^3*z + 216*a^4*b*c^4*d*e*1^3*z + 72*a^2*b*c^6*e^3*f*j*z + 72*a^2*b*c^6*d \\
& *e^3*1*z - 18*a*b^3*c^5*e^3*f*j*z - 18*a*b^3*c^5*d*e^3*1*z - 90*a*b^2*c^6*d \\
& ^3*f*j*z + 72*a*b^2*c^6*d^3*e*k*z + 36*a^3*b*c^5*e*g*h^3*z - 36*a^2*b*c^6*e \\
& ^3*g*h*z + 9*a*b^6*c^2*d*e*k^3*z + 9*a*b^3*c^5*e^3*g*h*z - 180*a^3*b*c^5*d* \\
& e*j^3*z + 18*a*b^2*c^6*d^3*g*h*z - 9*a*b^5*c^3*d*e*j^3*z + 18*a*b^2*c^6*d*e \\
& ^3*h*z + 9*a*b^4*c^4*d*e*h^3*z + 36*a^2*b*c^6*d*e*g^3*z - 9*a*b^3*c^5*d*e*g \\
& ^3*z - 18*a*b^2*c^6*d*e*f^3*z + 27*a^5*b^2*c^2*h^2*1*m^2*z - 27*a^5*b^2*c^2 \\
& *j*k^2*1^2*z + 27*a^4*b^3*c^2*h^2*k^2*m*z + 27*a^4*b^3*c^2*g^2*1^2*m*z + 27 \\
& *a^5*b^2*c^2*g*k^2*m^2*z - 27*a^4*b^3*c^2*h^2*k^1^2*z - 27*a^4*b^3*c^2*g^2* \\
& k*m^2*z - 135*a^4*b^2*c^3*e^2*1*m^2*z + 27*a^5*b^2*c^2*e*1^2*m^2*z + 27*a^4 \\
& *b^3*c^2*h*j^2*1^2*z - 27*a^4*b^2*c^3*h^2*j^2*1*z + 27*a^3*b^4*c^2*e^2*1*m^ \\
& 2*z - 270*a^4*b^3*c^2*f*j^2*m^2*z - 270*a^4*b^2*c^3*f^2*j*m^2*z + 162*a^3*b \\
& ^4*c^2*f^2*j*m^2*z - 108*a^3*b^3*c^3*f^2*j^2*m*z - 27*a^4*b^2*c^3*h^2*j*k^2 \\
& *z - 27*a^4*b^2*c^3*g^2*j*1^2*z + 27*a^3*b^3*c^3*e^2*k^2*m*z + 27*a^3*b^3*c \\
& ^3*d^2*1^2*m*z + 27*a^2*b^5*c^2*f^2*j^2*m*z + 162*a^3*b^3*c^3*d^2*k*m^2*z - \\
& 27*a^4*b^3*c^2*d*k^2*m^2*z - 27*a^4*b^2*c^3*g*j^2*k^2*z + 27*a^3*b^3*c^3*g \\
& ^2*h^2*m*z - 27*a^2*b^5*c^2*d^2*k*m^2*z + 162*a^3*b^2*c^4*d^2*k^2*1*z - 108 \\
& *a^4*b^2*c^3*g*h^2*1^2*z - 27*a^4*b^2*c^3*e*j^2*1^2*z + 27*a^3*b^4*c^2*g*h^ \\
& 2*1^2*z + 27*a^3*b^2*c^4*e^2*j^2*1*z - 27*a^2*b^4*c^3*d^2*k^2*1*z - 162*a^3 \\
& *b^3*c^3*f^2*h^1^2*z + 162*a^3*b^3*c^3*e^2*h*m^2*z - 135*a^4*b^2*c^3*e*h^2* \\
& m^2*z + 135*a^3*b^2*c^4*f^2*h^2*1*z + 27*a^3*b^4*c^2*e*h^2*m^2*z - 27*a^3*b \\
& ^3*c^3*g^2*h*k^2*z - 27*a^3*b^2*c^4*e^2*j*k^2*z - 27*a^3*b^2*c^4*d^2*j*1^2* \\
& z + 27*a^2*b^5*c^2*f^2*h^1^2*z - 27*a^2*b^5*c^2*e^2*h*m^2*z - 27*a^2*b^4*c^ \\
& 3*f^2*h^2*1*z - 27*a^3*b^2*c^4*g^2*h^2*j*z + 27*a^2*b^3*c^4*e^2*g^2*m*z - 2 \\
& 7*a^2*b^3*c^4*d^2*j^2*k*z + 27*a^2*b^3*c^4*d^2*h^2*m*z + 351*a^3*b^2*c^4*d^ \\
& 2*g*m^2*z - 189*a^2*b^4*c^3*d^2*g*m^2*z + 162*a^3*b^3*c^3*d*g^2*m^2*z - 162 \\
& *a^3*b^2*c^4*e^2*g*1^2*z + 135*a^3*b^3*c^3*d*h^2*1^2*z + 135*a^3*b^2*c^4*f^ \\
& 2*g*k^2*z - 27*a^2*b^5*c^2*d*h^2*1^2*z - 27*a^2*b^5*c^2*d*g^2*m^2*z - 27*a^ \\
& 2*b^4*c^3*f^2*g*k^2*z + 27*a^2*b^4*c^3*e^2*g*1^2*z + 27*a^2*b^3*c^4*f^2*g^2
\end{aligned}$$

$$\begin{aligned}
& *k*z + 27*a^2*b^3*c^4*e^2*h^2*k*z + 135*a^3*b^2*c^4*e*f^2*l^2*z - 108*a^3*b^2*c^4*e*g^2*k^2*z + 108*a^2*b^2*c^5*d^2*g^2*l*z + 27*a^3*b^2*c^4*e*h^2*j^2*z \\
& *z + 27*a^2*b^4*c^3*e*g^2*k^2*z - 27*a^2*b^4*c^3*e*f^2*l^2*z - 27*a^2*b^3*c^4*e^2*h*j^2*z - 27*a^2*b^2*c^5*e^2*f^2*l*z - 27*a^2*b^2*c^5*e^2*g^2*j*z - \\
& 27*a^2*b^2*c^5*d^2*h^2*j*z + 162*a^2*b^3*c^4*d*e^2*l^2*z - 135*a^2*b^2*c^5*d^2*g*j^2*z - 27*a^2*b^3*c^4*d*g^2*j^2*z + 27*a^2*b^3*c^4*d*f^2*k^2*z - 162 \\
& *a^2*b^2*c^5*d^2*e*k^2*z - 27*a^2*b^2*c^5*e*f^2*h^2*z - 72*a^7*c^2*k*l^3*m^3*z + 9*a^5*b^4*k*l^3*m^3*z + 72*a^6*c^3*j*k^3*m*z - 72*a^6*c^3*h*k*l^3*z - 72* \\
& a^6*c^3*f*l^3*m*z - 72*a^5*c^4*h^3*k*l*z - 72*a^5*c^4*h^3*j*m*z - 9*a^4*b^5*h*k*m^3*z - 9*a^4*b^5*g*l^3*m^3*z - 144*a^6*c^3*f*j*m^3*z - 144*a^5*c^4*h*j^3*k*z \\
& - 144*a^5*c^4*g*j^3*l*z - 144*a^5*c^4*f*j^3*m*z - 144*a^4*c^5*f^3*j*m*z + 72*a^6*c^3*e*k*m^3*z + 72*a^6*c^3*d*l^3*m^3*z + 72*a^4*c^5*f^3*k*l*z + 7 \\
& 2*a^6*c^3*g*h*m^3*z + 18*b^6*c^3*d^3*j*m^3*z - 18*a^3*b^6*f*j*m^3*z - 9*b^6*c^3*d^3*k*l*z + 9*a^3*b^6*e*k*m^3*z + 9*a^3*b^6*d*l^3*m^3*z + 144*a^5*c^4*d*k^3 \\
& *l*z + 144*a^3*c^6*d^3*k*l*z - 72*a^5*c^4*f*j*k^3*z - 72*a^3*c^6*d^3*j*m^3*z + 9*a^3*b^6*g*h*m^3*z - 72*a^5*c^4*g*h*k^3*z - 72*a^4*c^5*g^3*h*k*z - 72*a \\
& ^4*c^5*f*g^3*m*z - 108*a^5*b*c^3*j^4*m^3*z + 63*a^6*b^2*c*j*m^4*z + 36*a^6*b*c^2*k*l^4*z - 9*a^5*b^3*c*k*l^4*z - 144*a^5*c^4*e*g*l^3*z - 144*a^3*c^6*e^3 \\
& *g*l^3*z + 72*a^5*c^4*d*h*l^3*z + 72*a^4*c^5*f*h^3*j*z + 72*a^4*c^5*e*h^3*k*z + 72*a^4*c^5*d*h^3*l^3*z + 72*a^3*c^6*e^3*h*k*z + 72*a^3*c^6*e^3*f*m^3*z - 18* \\
& b^5*c^4*d^3*f*m^3*z + 9*b^5*c^4*d^3*h*k*z + 9*b^5*c^4*d^3*g*l^3*z - 9*a^2*b^7*e*g*m^3*z - 9*a^2*b^7*d*h*m^3*z + 144*a^4*c^5*e*g*j^3*z + 144*a^4*c^5*d*h*j^3 \\
& *z - 72*a^5*c^4*d*e*m^3*z - 72*a^3*c^6*e*f^3*k*z - 72*a^3*c^6*d*f^3*l^3*z + 144*a^6*b*c^2*f*m^4*z - 108*a^5*b^3*c*f*m^4*z - 72*a^3*c^6*f^3*g*h*z + 36*a^5 \\
& *b*c^3*h*k^4*z - 36*a^3*b*c^5*f^4*m^3*z + 18*b^4*c^5*d^3*f*j^3*z - 9*b^4*c^5*d^3*e*k*z + 9*a^4*b^4*c*g*l^4*z - 144*a^4*c^5*d*e*k^3*z - 144*a^2*c^7*d^3*e \\
& *k*z + 72*a^2*c^7*d^3*f*j^3*z - 9*b^4*c^5*d^3*g*h*z + 72*a^3*c^6*d*g^3*h*z + 72*a^2*c^7*d^3*g*h*z - 72*a^5*b*c^3*d*l^4*z - 72*a^4*b*c^4*f*j^4*z + 45*a*b^2 \\
& *c^6*d^4*l^3*z - 36*a^2*b*c^6*e^4*k*z - 9*a^3*b^5*c*d*l^4*z + 9*a*b^3*c^5*e^4*k*z - 72*a^3*c^6*d*e*h^3*z - 72*a^2*c^7*d*e^3*h*z + 9*b^3*c^6*d^3*e*g*z \\
& + 72*a^2*c^7*d*e*f^3*z + 36*a^3*b*c^5*d*h^4*z - 9*a*b^2*c^6*e^4*g*z + 36*a*b*c^7*d^3*f^2*z + 90*a^5*b^2*c^2*j^3*m^2*z + 45*a^5*b^2*c^2*j^2*l^3*z + 9*a^4 \\
& *b^3*c^2*j^2*k^3*z - 9*a^4*b^3*c^2*h^3*m^2*z - 45*a^4*b^2*c^3*g^3*m^2*z + 9*a^3*b^4*c^2*g^3*m^2*z + 198*a^4*b^3*c^2*f^2*m^3*z - 108*a^3*b^3*c^3*f^3*m^2*z \\
& + 18*a^2*b^5*c^2*f^3*m^2*z - 117*a^4*b^2*c^3*f^2*l^3*z + 117*a^3*b^2*c^4*e^3*m^2*z + 63*a^3*b^4*c^2*f^2*l^3*z - 63*a^2*b^4*c^3*e^3*m^2*z - 171*a^2*b^3*c^4 \\
& *d^3*m^2*z - 54*a^3*b^3*c^3*f^2*k^3*z + 9*a^3*b^2*c^4*g^3*j^2*z + 9*a^2*b^5*c^2*f^2*k^3*z + 18*a^3*b^2*c^4*f^2*j^3*z + 18*a^2*b^3*c^4*f^3*j^2*z - 9*a^2*b^4 \\
& *c^3*f^2*j^3*z - 45*a^2*b^2*c^5*e^3*j^2*z + 9*a^2*b^3*c^4*f^2*h^3*z - 9*a^2*b^2*c^5*f^2*g^3*z + 9*a*b^8*d*e*m^3*z - 36*a*b*c^7*d^4*h*z - 108*a^6*c^3*h^2 \\
& *l^3*m^2*z + 108*a^6*c^3*j*k^2*l^2*z - 108*a^6*c^3*g*k^2*m^2*z - 108*a^6*c^3*e*l^2*m^2*z + 108*a^5*c^4*h^2*j^2*l^3*z + 108*a^5*c^4*e^2*l^3*m^2*z + 216*a^5 \\
& *c^4*f^2*j*m^2*z + 108*a^5*c^4*h^2*j*k^2*z + 108*a^5*c^4*g^2*j*l^2*z + 108*a^5*c^4*g*j^2*k^2*z - 216*a^4*c^5*d^2*k^2*l^3*z + 108*a^5*c^4*e*j^2*l^2*z - 108 \\
& *a^4*c^5*e^2*j^2*l^3*z - 9*a^6*b^2*c*l^3*m^2*z + 108*a^5*c^4
\end{aligned}$$

$$\begin{aligned}
& *e^h^2m^2z - 108a^4c^5f^2h^2l^2z + 108a^4c^5e^2j^2k^2z + 108a^4c^5d^2j^2l^2z - 144a^6b^2c^2j^2m^3z + 108a^4c^5g^2h^2j^2z - 27a^4b^4c^2j^3m^2z + 27a^4b^3c^2j^4m^2z + 9a^5b^2c^2k^4l^2z + 216a^4c^5e^2g^2l^2z - 108a^4c^5f^2g^2k^2z - 108a^4c^5d^2g^2m^2z - 9a^4b^4c^2j^2l^3z - 108a^4c^5e^2h^2j^2z - 108a^4c^5e^2f^2l^2z + 108a^3c^6e^2f^2l^2z - 36a^5b^2c^3j^2k^3z + 36a^5b^2c^3h^3m^2z + 108a^3c^6e^2g^2j^2z + 108a^3c^6d^2h^2j^2z - 216a^5b^2c^3f^2m^3z + 144a^4b^2c^4f^3m^2z + 108a^3c^6d^2g^2j^2z - 72a^3b^5c^2f^2m^3z - 45a^5b^2c^2g^2l^4z - 9a^4b^3c^2h^2k^4z - 9a^3b^2c^4g^4l^2z + 9a^2b^3c^4f^4m^2z + 216a^3c^6d^2e^2k^2z - 9a^2b^6c^2f^2l^3z + 9a^2b^6c^2e^3m^2z + 108a^3c^6e^2f^2h^2z + 108a^3b^2c^5d^3m^2z + 108a^2c^7d^2e^2j^2z + 72a^4b^2c^4f^2k^3z + 72a^2b^5c^3d^3m^2z - 72a^3b^2c^5f^3j^2z + 54a^4b^3c^2d^2l^4z - 45a^4b^2c^3e^2k^4z + 18a^3b^3c^3f^2j^4z + 9a^3b^4c^2e^2k^4z - 9a^2b^2c^5f^4j^2z - 108a^2c^7d^2f^2g^2z + 9a^3b^2c^4g^2h^4z + 9a^2b^4c^4e^3j^2z - 72a^2b^2c^6d^3j^2z + 54a^2b^3c^5d^3j^2z - 36a^3b^2c^5f^2h^3z - 9a^2b^3c^4d^2h^4z + 9a^2b^2c^5e^2g^4z + 9a^2b^2c^6e^3f^2z + 36a^7c^2l^3m^2z + 72a^6c^3j^3m^2z - 36a^6c^3j^2l^3z + 9a^4b^5j^2m^3z + 36a^5c^4g^3m^2z + 36a^5c^4f^2l^3z - 36a^4c^5e^3m^2z - 9b^7c^2d^3m^2z + 9a^2b^7f^2m^3z - 36a^4c^5g^3j^2z + 72a^4c^5f^2j^3z + 36a^3c^6e^3j^2z - 9b^5c^4d^3j^2z + 36a^3c^6f^2g^3z - 9a^4b^2c^3j^5z - 36a^2c^7e^3f^2z - 9b^3c^6d^3f^2z + 36a^7c^2j^2m^4z - 36a^6c^3k^4l^2z - 18a^5b^4j^2m^4z + 36a^6c^3g^2l^4z + 36a^4c^5g^4l^2z + 18a^4b^5f^2m^4z - 9b^4c^5d^4l^2z + 36a^5c^4e^2k^4z + 36a^3c^6f^4j^2z - 36a^2c^7d^4l^2z - 36a^4c^5g^2h^4z + 9b^3c^6d^4h^2z - 36a^3c^6e^2g^4z + 36a^2c^7e^4g^2z - 9b^2c^7d^4e^2z - 36a^7b^2c^5m^5z + 36a^2c^8d^4e^2z + 9a^6b^3m^5z + 36a^5c^4j^5z + 9a^4b^3c^2g^2h^2j^2k^2l^2m - 9a^3b^4c^2e^2g^2j^2k^2l^2m - 9a^3b^4c^2d^2h^2j^2k^2l^2m - 9a^3b^4c^2f^2g^2h^2k^2l^2m + 36a^4b^2c^3d^2e^2j^2k^2l^2m + 9a^2b^5c^2d^2e^2j^2k^2l^2m + 36a^4b^2c^3e^2f^2h^2j^2l^2m + 36a^4b^2c^3e^2f^2g^2k^2l^2m + 36a^4b^2c^3d^2f^2h^2k^2l^2m + 9a^2b^5c^2e^2f^2g^2k^2l^2m + 9a^2b^5c^2d^2f^2h^2k^2l^2m + 36a^3b^2c^4d^2e^2f^2j^2k^2l^2m + 36a^3b^2c^4d^2e^2f^2j^2k^2l^2m + 36a^3b^2c^4d^2e^2f^2g^2h^2k^2l^2m + 36a^3b^2c^4d^2e^2f^2g^2l^2m + 9a^2b^5c^2d^2e^2f^2h^2k^2m + 9a^2b^5c^2d^2e^2f^2g^2l^2m - 9a^2b^4c^3d^2e^2f^2h^2j^2k - 9a^2b^4c^3d^2e^2f^2g^2j^2l - 9a^2b^4c^3d^2e^2f^2g^2h^2m + 9a^2b^3c^4d^2e^2f^2g^2h^2j - 9a^2b^6c^2d^2e^2f^2k^2l^2m + 18a^4b^2c^2e^2g^2j^2k^2l^2m + 18a^4b^2c^2d^2h^2j^2k^2l^2m + 18a^4b^2c^2f^2g^2h^2k^2l^2m - 36a^3b^3c^2d^2e^2j^2k^2l^2m - 36a^3b^3c^2e^2f^2g^2k^2l^2m - 36a^3b^3c^2d^2f^2h^2k^2l^2m + 9a^3b^3c^2f^2g^2h^2j^2k^2l + 9a^3b^3c^2e^2g^2h^2j^2k^2m + 9a^3b^3c^2d^2g^2h^2j^2l^2m - 108a^3b^2c^3d^2e^2f^2k^2l^2m + 54a^2b^4c^2d^2e^2f^2k^2l^2m - 36a^3b^2c^3d^2f^2g^2j^2k^2m + 18a^3b^2c^3e^2f^2g^2j^2k^2l + 18a^3b^2c^3d^2f^2h^2j^2k^2l + 18a^3b^2c^3d^2e^2h^2j^2k^2m + 18a^3b^2c^3d^2e^2g^2j^2l^2m - 9a^2b^4c^2e^2f^2g^2j^2k^2l - 9a^2b^4c^2d^2f^2h^2j^2k^2l - 9a^2b^4c^2d^2e^2h^2j^2k^2m - 9a^2b^4c^2d^2e^2g^2j^2l^2m + 18a^3b^2c^3e^2f^2g^2h^2k^2m + 18a^3b^2c^3d^2f^2g^2h^2l^2m - 9a^2b^4c^2e^2f^2g^2h^2k^2m - 9a^2b^4c^2d^2f^2g^2h^2l^2m - 36a^2b^3c^3d^2e^2f^2j^2k^2l - 36a^2b^3
\end{aligned}$$

$$\begin{aligned}
& *c^3*d*e*f*h*k*m - 36*a^2*b^3*c^3*d*e*f*g*l*m + 9*a^2*b^3*c^3*e*f*g*h*j*k + \\
& 9*a^2*b^3*c^3*d*f*g*h*j*l + 9*a^2*b^3*c^3*d*e*g*h*j*m + 18*a^2*b^2*c^4*d*e \\
& *f*h*j*k + 18*a^2*b^2*c^4*d*e*f*g*j*l + 18*a^2*b^2*c^4*d*e*f*g*h*m - 9*a^5* \\
& b^2*c*h*j*k^2*l*m - 9*a^5*b^2*c*g*j*k^2*l^2*m + 27*a^5*b^2*c*f*j*k^2*l^2*m - 9* \\
& a^4*b^3*c*f*j^2*k^2*l*m + 9*a^3*b^4*c*f^2*j*k^2*l*m - 18*a^5*b*c^2*e*j*k^2*l*m \\
& - 9*a^5*b^2*c*g*h*k^2*l^2*m + 9*a^4*b^3*c*e*j*k^2*l^2*m - 18*a^5*b*c^2*f*h*k^2* \\
& l*m - 18*a^5*b*c^2*d*j*k^2*l^2*m + 9*a^4*b^3*c*f*h*k^2*l^2*m + 9*a^4*b^3*c*d*j* \\
& k^2*l^2*m + 36*a^5*b*c^2*e*h*k^2*l^2*m - 36*a^4*b*c^3*e^2*h*k^2*l^2*m + 18*a^5*b*c^ \\
& 2*f*h*j^2*l^2*m - 18*a^5*b*c^2*f*g*k^2*l^2*m - 18*a^4*b^3*c*e*h*k^2*l^2*m + 9*a^4 \\
& *b^3*c*f*g*k^2*l^2*m + 9*a^3*b^4*c*e*h^2*k^2*l^2*m - 9*a^2*b^5*c*e^2*h*k^2*l^2*m - 54 \\
& *a^5*b*c^2*e*h*j^2*l^2*m - 18*a^5*b*c^2*e*g*k^2*l^2*m - 18*a^5*b*c^2*d*h*k^2*l^2*m^ \\
& 2 + 18*a^4*b^3*c*e*h*j^2*l^2*m - 9*a^4*b^3*c*f*h*j^2*k^2*m^2 - 9*a^4*b^3*c*f*g*j^ \\
& l^2*m^2 + 9*a^4*b^3*c*e*g*k^2*l^2*m^2 + 9*a^4*b^3*c*d*h*k^2*l^2*m^2 + 18*a^4*b*c^3*f* \\
& g^2*j*k^2*m - 18*a^4*b*c^3*e*g^2*j^2*l^2*m + 18*a^3*b^4*c*d*g*k^2*l^2*m - 9*a^3*b^4 \\
& *c*e*f*k^2*l^2*m - 9*a^2*b^5*c*d*g^2*k^2*l^2*m - 18*a^4*b*c^3*f*g^2*h^2*l^2*m - 18*a^ \\
& 4*b*c^3*d*h^2*j^2*k^2*m - 9*a^3*b^4*c*d*d*f*k^2*l^2*m - 54*a^4*b*c^3*d*g*j^2*k^2*m - \\
& 18*a^4*b*c^3*f*g*h^2*k^2*m - 18*a^4*b*c^3*e*g*j^2*k^2*l - 18*a^4*b*c^3*d*h*j^2* \\
& k^2*l - 18*a^3*b^4*c*d*g*j^2*k^2*m^2 + 9*a^3*b^4*c*e*f*j^2*k^2*m^2 + 9*a^3*b^4*c*d*f* \\
& j^2*l^2*m - 9*a^3*b^4*c*d*e*k^2*l^2*m - 54*a^3*b*c^4*d^2*f*j^2*k^2*m + 36*a^4*b*c^3 \\
& *d*g*j^2*k^2*l - 36*a^3*b*c^4*d^2*g*j^2*k^2*l - 18*a^4*b*c^3*e*f*j^2*k^2*l + 18*a^4 \\
& *b*c^3*d*f*j^2*k^2*m - 18*a^3*b*c^4*d^2*e*j^2*l^2*m + 9*a^3*b^4*c*f*g*h*j^2*m^2 - 9 \\
& *a*b^5*c^2*d^2*g*j^2*k^2*l + 36*a^4*b*c^3*d*g*h*k^2*m - 36*a^3*b*c^4*d^2*g*h*k^2 \\
& m + 18*a^4*b*c^3*e*g*h*k^2*l - 18*a^4*b*c^3*e*f*h*k^2*m - 18*a^4*b*c^3*d*f* \\
& j^2*k^2*l - 18*a^3*b*c^4*d^2*f*h^2*l^2*m - 18*a^3*b*c^4*d*e^2*j^2*k^2*m - 9*a*b^5*c^2 \\
& *d^2*g*h*k^2*m - 54*a^4*b*c^3*d*g*h*k^2*l^2 - 54*a^3*b*c^4*e^2*f*h*j^2*m - 18*a^4 \\
& *b*c^3*d*f*g^2*l^2*m - 18*a^3*b*c^4*e^2*f*g*k^2*m - 54*a^4*b*c^3*d*f*g*k^2*m^2 - \\
& 36*a^4*b*c^3*e*f*g^2*j^2*m^2 - 36*a^4*b*c^3*d*f*h^2*j^2*m^2 + 36*a^3*b*c^4*e*f^2*g* \\
& j^2*m + 36*a^3*b*c^4*d*f^2*h^2*j^2*m - 18*a^4*b*c^3*d*e*h^2*k^2*m - 18*a^4*b*c^3*d* \\
& e*g^2*l^2*m + 18*a^3*b*c^4*e*f^2*h^2*j^2*l - 18*a^3*b*c^4*e*f^2*g^2*k^2*l - 18*a^3*b* \\
& c^4*d*f^2*h^2*k^2*l + 18*a^3*b*c^4*d*f^2*g^2*k^2*m - 9*a^2*b^5*c*e*f*g^2*j^2*m - 9*a^ \\
& 2*b^5*c*d*f*h^2*j^2*m - 54*a^3*b*c^4*d*d*f*g^2*j^2*m - 18*a^3*b*c^4*e*f*g^2*j^2*l - \\
& 18*a*b^4*c^3*d^2*f*g^2*j^2*m + 9*a*b^4*c^3*d^2*g^2*h^2*j^2*k + 9*a*b^4*c^3*d^2*f*g^2* \\
& k^2*l + 9*a*b^4*c^3*d^2*e*g^2*k^2*m - 9*a*b^4*c^3*d^2*e*f^2*l^2*m - 18*a^3*b*c^4*e*f*g \\
& ^2*h^2*m - 18*a^3*b*c^4*d*f*h^2*j^2*k - 9*a*b^4*c^3*d*e^2*f^2*k^2*m + 18*a^3*b*c^4* \\
& d*f*g^2*j^2*k - 18*a^3*b*c^4*d*f*g^2*h^2*m - 18*a^3*b*c^4*d*e*h^2*j^2*k - 18*a^3* \\
& b*c^4*d*e*g^2*j^2*l + 18*a*b^4*c^3*d*d*e*f^2*j^2*m - 9*a*b^5*c^2*d*e*f^2*j^2*m - 9* \\
& a*b^4*c^3*d*e*f^2*k^2*l - 18*a^2*b*c^5*d^2*e*f^2*j^2*l - 9*a*b^3*c^4*d^2*e*g^2*j^2*k \\
& + 9*a*b^3*c^4*d^2*e*f^2*j^2*l - 54*a^2*b*c^5*d^2*e*g^2*h^2*l - 18*a^2*b*c^5*d^2*e*f \\
& *h^2*m - 18*a^2*b*c^5*d*e^2*f^2*j^2*k + 18*a*b^3*c^4*d^2*e*g^2*h^2*l - 9*a*b^3*c^4*d^ \\
& 2*f*g^2*h^2*k + 9*a*b^3*c^4*d^2*e*f^2*h^2*m + 9*a*b^3*c^4*d*e^2*f^2*j^2*k - 36*a^3*b*c^ \\
& 4*d*e*f^2*h^2*l + 36*a^2*b*c^5*d*e^2*f^2*h^2*l + 18*a^2*b*c^5*d*e^2*g^2*h^2*k - 18*a^ \\
& 2*b*c^5*d*e^2*f^2*g^2*m - 18*a*b^3*c^4*d*d*e^2*f^2*h^2*l - 9*a*b^5*c^2*d*e*f^2*h^2* \\
& l + 9*a*b^4*c^3*d*d*e*f^2*h^2*l + 9*a*b^3*c^4*d*d*e^2*f^2*g^2*m - 18*a^2*b*c^5*d*e*f^2*h^2* \\
& k - 18*a^2*b*c^5*d*e*f^2*g^2*l + 9*a*b^3*c^4*d*d*e*f^2*h^2*k + 9*a*b^3*c^4*d*d*e*f^ \\
& 2*g^2*l + 27*a*b^2*c^5*d^2*e*f^2*g^2*k + 9*a*b^4*c^3*d*d*e*f^2*g^2*k^2 - 9*a*b^3*c^4*d*
\end{aligned}$$

$$\begin{aligned}
& e*f*g^2*k - 9*a*b^2*c^5*d^2*e*f*h*j - 9*a*b^2*c^5*d*e^2*f*g*j - 9*a*b^2*c^5 \\
& *d*e*f^2*g*h + 72*a^4*c^4*d*f*g*j*k*m + 72*a^4*c^4*d*e*f*k*1*m + 9*a*b^6*c* \\
& d^2*g*k*1*m + 9*a*b^6*c*d*e*f*j*m^2 - 27*a^4*b^2*c^2*f^2*j*k*1*m - 9*a^4*b^ \\
& 2*c^2*g^2*h*j*1*m + 36*a^3*b^3*c^2*e^2*h*k*1*m - 18*a^4*b^2*c^2*e*h^2*k*1*m \\
& - 9*a^4*b^2*c^2*g*h^2*j*k*m + 18*a^4*b^2*c^2*f*h*j^2*k*m + 18*a^4*b^2*c^2* \\
& f*g*j^2*1*m - 18*a^4*b^2*c^2*e*h*j^2*1*m - 9*a^4*b^2*c^2*g*h*j^2*k*1 - 9*a^ \\
& 3*b^3*c^2*f^2*h*j*k*m - 9*a^3*b^3*c^2*f^2*g*j*1*m - 63*a^4*b^2*c^2*d*g*k^2* \\
& 1*m + 63*a^3*b^2*c^3*d^2*g*k*1*m - 45*a^2*b^4*c^2*d^2*g*k*1*m + 36*a^4*b^2* \\
& c^2*e*f*k^2*1*m + 27*a^3*b^3*c^2*d*g^2*k*1*m - 9*a^4*b^2*c^2*f*h*j*k^2*1 - \\
& 9*a^4*b^2*c^2*e*h*j*k^2*m + 9*a^3*b^3*c^2*e*g^2*j*1*m - 9*a^3*b^2*c^3*d^2*h \\
& *j*1*m + 36*a^4*b^2*c^2*d*f*k*1^2*m + 27*a^4*b^2*c^2*e*h*j*k*1^2 - 27*a^3*b \\
& ^2*c^3*e^2*h*j*k*1 - 18*a^3*b^2*c^3*e^2*f*j*1*m - 9*a^4*b^2*c^2*f*g*j*k*1^2 \\
& - 9*a^4*b^2*c^2*d*g*j*1^2*m + 9*a^3*b^3*c^2*f*g^2*h*1*m - 9*a^3*b^3*c^2*e* \\
& h^2*j*k*1 + 9*a^3*b^3*c^2*d*h^2*j*k*m - 9*a^3*b^2*c^3*e^2*g*j*k*m + 9*a^2*b \\
& ^4*c^2*e^2*h*j*k*1 + 72*a^4*b^2*c^2*d*g*j*k*m^2 + 36*a^4*b^2*c^2*d*e*k*1*m^ \\
& 2 + 27*a^4*b^2*c^2*e*g*h*1^2*m - 27*a^4*b^2*c^2*e*f*j*k*m^2 - 27*a^4*b^2*c^ \\
& 2*d*f*j*1*m^2 - 27*a^3*b^2*c^3*e^2*g*h*1*m + 27*a^3*b^2*c^3*e*f^2*j*k*m + 2 \\
& 7*a^3*b^2*c^3*d*f^2*j*1*m + 18*a^3*b^3*c^2*d*g*j^2*k*m + 9*a^3*b^3*c^2*f*g* \\
& h^2*k*m + 9*a^3*b^3*c^2*e*g*j^2*k*1 - 9*a^3*b^3*c^2*e*g*h^2*1*m - 9*a^3*b^3 \\
& *c^2*e*f*j^2*k*m + 9*a^3*b^3*c^2*d*h*j^2*k*1 - 9*a^3*b^3*c^2*d*f*j^2*1*m + \\
& 9*a^2*b^4*c^2*e^2*g*h*1*m + 36*a^2*b^3*c^3*d^2*g*j*k*1 - 27*a^4*b^2*c^2*f*g \\
& *h*j*m^2 + 27*a^3*b^2*c^3*f^2*g*h*j*m - 18*a^4*b^2*c^2*e*f*h*1*m^2 - 18*a^3 \\
& *b^3*c^2*d*g*j*k^2*1 - 18*a^3*b^2*c^3*d*g^2*j*k*1 + 18*a^2*b^3*c^3*d^2*f*j* \\
& k*m - 9*a^4*b^2*c^2*e*g*h*k*m^2 - 9*a^4*b^2*c^2*d*g*h*1*m^2 - 9*a^3*b^3*c^2 \\
& *f*g*h*j^2*m + 9*a^3*b^3*c^2*e*f*j*k^2*1 - 9*a^3*b^2*c^3*f^2*g*h*k*1 + 9*a^ \\
& 2*b^4*c^2*d*g^2*j*k*1 + 9*a^2*b^3*c^3*d^2*e*j*1*m + 36*a^3*b^2*c^3*e*f*g^2* \\
& 1*m + 36*a^2*b^3*c^3*d^2*g*h*k*m - 18*a^3*b^3*c^2*d*g*h*k^2*m - 18*a^3*b^2* \\
& c^3*d*g^2*h*k*m + 9*a^3*b^3*c^2*e*f*h*k^2*m + 9*a^3*b^3*c^2*d*f*j*k*1^2 - 9 \\
& *a^3*b^2*c^3*f*g^2*h*j*1 - 9*a^3*b^2*c^3*e*g^2*h*j*m - 9*a^2*b^4*c^2*e*f*g^ \\
& 2*1*m + 9*a^2*b^4*c^2*d*g^2*h*k*m + 9*a^2*b^3*c^3*d^2*f*h*1*m + 9*a^2*b^3*c \\
& ^3*d*e^2*j*k*m + 36*a^3*b^2*c^3*d*f*h^2*k*m + 36*a^3*b^2*c^3*d*e*j^2*k*1 + \\
& 18*a^3*b^3*c^2*d*g*h*k*1^2 + 18*a^3*b^2*c^3*e*g*h^2*j*1 + 18*a^3*b^2*c^3*e* \\
& f*h^2*k*1 - 18*a^3*b^2*c^3*e*f*h^2*j*m - 18*a^3*b^2*c^3*d*g*h^2*k*1 + 18*a^ \\
& 3*b^2*c^3*d*e*h^2*1*m + 18*a^2*b^3*c^3*e^2*f*h*j*m - 9*a^3*b^3*c^2*e*g*h*j* \\
& 1^2 - 9*a^3*b^3*c^2*e*f*h*k*1^2 + 9*a^3*b^3*c^2*d*f*g*1^2*m - 9*a^3*b^3*c^2 \\
& *d*e*h*1^2*m - 9*a^3*b^2*c^3*f*g*h^2*j*k - 9*a^3*b^2*c^3*d*g*h^2*j*m - 9*a^ \\
& 2*b^4*c^2*d*f*h^2*k*m - 9*a^2*b^4*c^2*d*e*j^2*k*1 - 9*a^2*b^3*c^3*e^2*g*h*j \\
& *1 - 9*a^2*b^3*c^3*e^2*f*h*k*1 + 9*a^2*b^3*c^3*e^2*f*g*k*m - 9*a^2*b^3*c^3* \\
& d*e^2*h*1*m + 36*a^3*b^3*c^2*e*f*g*j*m^2 + 36*a^3*b^3*c^2*d*f*h*j*m^2 + 18* \\
& a^3*b^3*c^2*d*f*g*k*m^2 - 18*a^3*b^2*c^3*e*f*g*j^2*m - 18*a^3*b^2*c^3*d*f*h \\
& *j^2*m - 18*a^2*b^3*c^3*e*f^2*g*j*m - 18*a^2*b^3*c^3*d*f^2*h*j*m + 9*a^3*b^ \\
& 3*c^2*d*e*h*k*m^2 + 9*a^3*b^3*c^2*d*e*g*1*m^2 - 9*a^3*b^2*c^3*e*g*h*j^2*k - \\
& 9*a^3*b^2*c^3*d*g*h*j^2*1 + 9*a^2*b^4*c^2*e*f*g*j^2*m + 9*a^2*b^4*c^2*d*f* \\
& h*j^2*m + 9*a^2*b^3*c^3*e*f^2*g*k*1 + 9*a^2*b^3*c^3*d*f^2*h*k*1 + 72*a^2*b^ \\
& 2*c^4*d^2*f*g*j*m + 36*a^2*b^2*c^4*d^2*e*f*1*m + 27*a^3*b^2*c^3*d*g*h*j*k^2
\end{aligned}$$

$$\begin{aligned}
& + 27a^3b^2c^3d^2fg^2k^2l + 27a^3b^2c^3d^2eg^2k^2m - 27a^2b^2c^4d^2g^2h^2jk - 27a^2b^2c^4d^2fg^2k^2l - 27a^2b^2c^4d^2eg^2k^2m + 18 \\
& a^2b^3c^3d^2fg^2j^2m - 18a^2b^2c^4d^2eg^2h^2k^2l - 9a^3b^2c^3e^2fh^2jk^2 + 9a^2b^3c^3e^2fg^2j^2l - 9a^2b^3c^3d^2g^2h^2jk - 9a^2b^3c^3 \\
& c^3d^2fg^2k^2l - 9a^2b^3c^3d^2eg^2k^2m - 9a^2b^2c^4d^2f^2h^2j^2l - 9a^2b^2c^4d^2eg^2h^2j^2m + 36a^2b^2c^4d^2e^2fk^2m - 27a^3b^2c^3d^2e^2 \\
& h^2j^2l^2 + 27a^2b^2c^4d^2e^2h^2j^2l - 18a^3b^2c^3d^2eg^2k^2l^2 - 9a^3b^2c^3d^2fg^2j^2l^2 + 9a^2b^4c^2d^2e^2h^2j^2l^2 + 9a^2b^3c^3e^2fg^2h^2m \\
& + 9a^2b^3c^3d^2f^2h^2j^2k - 9a^2b^3c^3d^2e^2h^2j^2l - 9a^2b^2c^4e^2f^2g^2j^2k - 9a^2b^2c^4d^2e^2g^2j^2m + 63a^3b^2c^3d^2e^2f^2j^2m^2 - 63a^2b^2c^4d^2e^2f^2j^2m \\
& - 45a^2b^4c^2d^2e^2f^2j^2m^2 + 36a^2b^2c^4d^2e^2f^2k^2l - 27a^3b^2c^3e^2fg^2h^2l^2 + 27a^2b^3c^3d^2e^2f^2j^2m + 27a^2b^2c^4e^2f^2g^2h^2l \\
& + 9a^2b^4c^2e^2fg^2h^2l^2 - 9a^2b^3c^3e^2fg^2h^2l + 9a^2b^3c^3d^2fg^2h^2m + 9a^2b^3c^3d^2e^2h^2j^2k + 9a^2b^3c^3d^2e^2g^2j^2l^2 + 18a^2b^2c^4d^2e^2g^2j^2k \\
& - 9a^3b^2c^3d^2e^2g^2h^2m^2 - 9a^2b^3c^3d^2e^2g^2j^2k^2 - 9a^2b^2c^4e^2f^2g^2h^2k - 9a^2b^2c^4d^2f^2g^2h^2l + 18a^2b^2c^4d^2fg^2h^2k \\
& - 18a^2b^2c^4d^2eg^2h^2l - 9a^2b^3c^3d^2fg^2h^2k^2 - 9a^2b^2c^4e^2fg^2h^2j + 36a^2b^3c^3d^2e^2f^2h^2l^2 - 18a^2b^2c^4d^2e^2f^2h^2l - 9a^2b^2c^4d^2fg^2h^2j \\
& - 9a^2b^2c^4d^2eg^2h^2j^2 - 27a^2b^2c^4d^2e^2fg^2k^2 + 18a^2b^2c^4d^2f^2h^2k^2 - 9a^2b^3c^3e^2fg^2k^2 - 9a^2b^2c^4e^2f^2h^2j^2 - 9a^2b^2c^4d^2f^2h^2k + 45a^2b^3c^3d^2e^2f^2m^2 \\
& + 36a^2b^2c^4d^2e^2g^2l^2 + 9a^2b^3c^3d^2e^2g^2l^2 + 9a^2b^2c^4e^2f^2g^2j^2 + 9a^2b^2c^4d^2f^2h^2j^2 - 9a^2b^2c^4d^2e^2h^2k^2 - 36a^2b^2c^4d^2e^2f^2l^2 - 9a^2b^2c^4d^2fg^2j^2 - 12a^6b^2c^3d^2e^2f^2g^2h^2k^2 \\
& + 3a^2b^6c^2e^2k^2l^2m + 3a^2b^6c^2d^2e^2f^2l^2 - 12a^2b^6c^2d^2e^2f^2g^2h^2k^2l^2m + 18a^5b^2c^2g^2k^2l^2m - 9a^5b^2c^2h^2j^2l^2m + 9a^5b^2c^2h^2j^2l^2m - 9a^4b^3c^2g^2k^2l^2m - 3a^4b^2c^2g^2k^2l^2m \\
& + 18a^5b^2c^2f^2k^2l^2m + 15a^3b^3c^2f^2k^2l^2m + 9a^5b^2c^2h^2j^2k^2m^2 + 9a^5b^2c^2g^2j^2l^2m^2 - 9a^5b^2c^2f^2k^2l^2m^2 + 9a^5b^2c^2h^2j^2k^2m^2 + 9a^5b^2c^2g^2j^2l^2m^2 - 9a^4b^3c^2f^2k^2l^2m^2 \\
& + 36a^3b^2c^3e^2k^2l^2m - 27a^5b^2c^2g^2j^2k^2m^2 - 18a^5b^2c^2h^2j^2k^2l^2 - 18a^2b^4c^2e^2k^2l^2m - 9a^5b^2c^2g^2j^2k^2m^2 - 9a^5b^2c^2e^2k^2l^2m^2 + 9a^5b^2c^2h^2j^2k^2l^2m^2 + 9a^5b^2c^2g^2j^2k^2l^2m^2 + 9a^4b^3c^2g^2j^2k^2m^2 \\
& + 9a^3b^4c^2e^2k^2l^2m + 3a^4b^2c^2h^3j^2k^2l - 54a^4b^2c^3d^2k^2l^2m - 51a^2b^3c^3d^2k^2l^2m - 27a^4b^2c^3e^2j^2l^2m - 18a^5b^2c^2g^2h^2l^2m - 9a^5b^2c^2e^2j^2l^2m^2 - 9a^5b^2c^2d^2k^2l^2m^2 + 9a^5b^2c^2g^2h^2l^2m^2 + 9a^5b^2c^2g^2j^2k^2l^2m^2 + 9a^5b^2c^2e^2j^2l^2m^2 \\
& m - 9a^3b^4c^2e^2j^2l^2m^2 - 9a^2b^5c^2d^2k^2l^2m + 3a^4b^2c^2g^2h^3l^2m - 3a^3b^3c^2g^2j^2k^2l + 18a^5b^2c^2e^2j^2k^2m^2 + 18a^5b^2c^2d^2j^2l^2m^2 + 18a^4b^2c^3f^2j^2k^2l + 9a^5b^2c^2g^2h^2k^2m^2 + 9a^5b^2c^2f^2h^2l^2m^2 + 9a^5b^2c^2f^2j^2k^2l^2 - 9a^4b^3c^2e^2j^2k^2m^2 - 9a^4b^3c^2d^2j^2l^2m^2 + 9a^4b^2c^2f^2j^2k^2l + 9a^4b^2c^2e^2j^2k^2m + 9a^4b^2c^2d^2j^2l^2m + 9a^4b^2c^3f^2h^2l^2m + 9a^4b^2c^3e^2j^2k^2m + 9a^4b^2c^3d^2j^2l^2m - 3a^3b^3c^2g^2h^2k^2m - 3a^3b^2c^3f^2j^2k^2l + 3a^2b^4c^2f^2j^2k^2l + 45a^4b^2c^3d^2j^2k^2m^2 - 27a^5b^2c^2d^2j^2k^2l^2
\end{aligned}$$

$$\begin{aligned}
& 2*m^2 + 18*a^5*b*c^2*g*h*j^2*m^2 + 18*a^4*b*c^3*e^2*j*k*1^2 + 15*a^2*b^3*c^3 \\
& e^3*j*k*1 - 12*a^3*b^2*c^3*f^3*h*k*m - 12*a^3*b^2*c^3*f^3*g*1*m + 9*a^5*b \\
& *c^2*g*h*k^2*1^2 - 9*a^4*b^3*c*g*h*j^2*m^2 + 9*a^4*b^3*c*d*j*k^2*m^2 + 9*a^4 \\
& *b^2*c^2*g*h*j^3*m + 9*a^4*b*c^3*g^2*h^2*k*1 + 9*a^4*b*c^3*g^2*h^2*j*m + 9 \\
& *a^2*b^5*c*d^2*j*k*m^2 + 3*a^2*b^4*c^2*f^3*h*k*m + 3*a^2*b^4*c^2*f^3*g*1*m \\
& + 36*a^2*b^2*c^4*d^3*j*k*1 + 18*a^4*b*c^3*e^2*g*1^2*m + 15*a^2*b^3*c^3*e^3* \\
& g*1*m + 12*a^4*b^2*c^2*d*j*k^3*1 + 9*a^5*b*c^2*f*g*k^2*m^2 + 9*a^5*b*c^2*e* \\
& h*k^2*m^2 + 9*a^4*b*c^3*g^2*h*j^2*1 + 9*a^4*b*c^3*f^2*h*k^2*1 + 9*a^4*b*c^3 \\
& *f^2*g*k^2*m + 9*a^4*b*c^3*d^2*h*1*m^2 - 9*a^3*b^3*c^2*e*h^3*k*m + 6*a^2*b^3 \\
& *c^3*e^3*h*k*m + 45*a^4*b*c^3*e^2*h*j*m^2 + 36*a^2*b^2*c^4*d^3*h*k*m - 33*a \\
& ^3*b^2*c^3*d*g^3*1*m - 27*a^4*b*c^3*f^2*h*j*1^2 - 27*a^4*b*c^3*e^2*f*1*m^2 \\
& - 27*a^4*b*c^3*e*h^2*j^2*m - 18*a^4*b*c^3*g^2*h*j*k^2 - 18*a^4*b*c^3*f*g^2 \\
& *k^2*1 - 18*a^4*b*c^3*e*g^2*k^2*m - 18*a^3*b*c^4*d^2*g^2*1*m + 12*a^4*b^2*c \\
& ^2*d*h*k^3*m + 9*a^5*b*c^2*e*f*1^2*m^2 + 9*a^5*b*c^2*d*g*1^2*m^2 + 9*a^4*b* \\
& c^3*f^2*g*k*1^2 + 9*a^4*b*c^3*e^2*g*k*m^2 + 9*a^4*b*c^3*g*h^2*j^2*k + 9*a^4 \\
& *b*c^3*f*h^2*j^2*1 + 9*a^4*b*c^3*e*f^2*1^2*m - 9*a^3*b^4*c*e*h^2*j*m^2 + 9* \\
& a^3*b*c^4*e^2*f^2*1*m + 9*a^2*b^5*c*e^2*h*j*m^2 + 9*a^2*b^4*c^2*d*g^3*1*m - \\
& 9*a^2*b^2*c^4*d^3*g*1*m - 9*a*b^5*c^2*d^2*g^2*1*m - 6*a^4*b^2*c^2*e*h*k^3* \\
& 1 - 6*a^3*b^2*c^3*f*g^3*j*m + 3*a^4*b^2*c^2*g*h*j*k^3 + 3*a^4*b^2*c^2*f*g*k \\
& ^3*1 + 3*a^4*b^2*c^2*e*g*k^3*m + 3*a^3*b^2*c^3*g^3*h*j*k + 3*a^3*b^2*c^3*f* \\
& g^3*k*1 + 3*a^3*b^2*c^3*e*g^3*k*m - 27*a^3*b*c^4*d^2*h^2*k*1 + 18*a^4*b*c^3 \\
& *e*f^2*k*m^2 + 18*a^4*b*c^3*d*f^2*1*m^2 + 9*a^4*b*c^3*f*h^2*j*k^2 + 9*a^4*b \\
& *c^3*f*g^2*j*1^2 + 9*a^4*b*c^3*e*g^2*k*1^2 + 9*a^4*b*c^3*d*h^2*k^2*1 + 9*a^ \\
& 3*b^4*c*e*g*j^2*m^2 + 9*a^3*b^4*c*d*h*j^2*m^2 - 9*a^3*b^3*c^2*e*g*j^3*m - 9 \\
& *a^3*b^3*c^2*d*h*j^3*m + 9*a^3*b*c^4*e^2*g^2*k*1 + 9*a^3*b*c^4*e^2*g^2*j*m \\
& + 9*a^3*b*c^4*d^2*h^2*j*m - 3*a^2*b^3*c^3*f^3*h*j*k - 3*a^2*b^3*c^3*f^3*g*j \\
& *1 - 3*a^2*b^3*c^3*e*f^3*k*m - 3*a^2*b^3*c^3*d*f^3*1*m + 45*a^4*b*c^3*d*g^2 \\
& *j*m^2 + 45*a^3*b*c^4*d^2*g*j^2*m + 24*a^4*b^2*c^2*d*g*k*1^3 + 24*a^2*b^2*c \\
& ^4*e^3*f*j*m + 18*a^4*b*c^3*f^2*g*h*m^2 + 18*a^4*b*c^3*d*h^2*j*1^2 + 18*a^3 \\
& *b*c^4*e^2*h^2*j*k - 12*a^4*b^2*c^2*e*g*j*1^3 - 12*a^4*b^2*c^2*e*f*k*1^3 - \\
& 12*a^4*b^2*c^2*d*e*1^3*m - 12*a^2*b^2*c^4*e^3*g*j*1 - 12*a^2*b^2*c^4*e^3*f* \\
& k*1 - 12*a^2*b^2*c^4*d*e^3*1*m + 9*a^4*b*c^3*f*g*j^2*k^2 + 9*a^4*b*c^3*e*h* \\
& j^2*k^2 + 9*a^3*b^2*c^3*e*h^3*j*k + 9*a^3*b^2*c^3*d*h^3*j*1 + 9*a^3*b*c^4*f \\
& ^2*g^2*j*k + 9*a^3*b*c^4*d^2*h*j^2*1 + 9*a^2*b^5*c*d*g^2*j*m^2 + 9*a*b^5*c^ \\
& 2*d^2*g*j^2*m - 3*a^4*b^2*c^2*d*h*j*1^3 - 3*a^2*b^3*c^3*f^3*g*h*m - 3*a^2*b \\
& ^2*c^4*e^3*h*j*k + 18*a^4*b*c^3*f*g*h^2*1^2 + 18*a^3*b*c^4*e^2*g*h^2*m + 18 \\
& *a^3*b*c^4*d^2*h*j*k^2 + 18*a^3*b*c^4*d^2*f*k^2*1 + 18*a^3*b*c^4*d^2*e*k^2* \\
& m + 9*a^4*b*c^3*e*g^2*h*m^2 + 9*a^4*b*c^3*e*f*j^2*1^2 + 9*a^4*b*c^3*d*g*j^2 \\
& *1^2 + 9*a^3*b^2*c^3*f*g*h^3*1 + 9*a^3*b^2*c^3*e*g*h^3*m + 9*a^3*b*c^4*f^2* \\
& g^2*h*1 + 9*a^3*b*c^4*e^2*g*j^2*k + 9*a^3*b*c^4*e^2*f*j^2*1 - 9*a^2*b^3*c^3 \\
& *d*g^3*j*1 + 9*a*b^4*c^3*d^2*g^2*j*1 - 3*a^4*b^2*c^2*f*g*h*1^3 - 3*a^3*b^3* \\
& c^2*e*g*j*k^3 - 3*a^3*b^3*c^2*d*h*j*k^3 - 3*a^3*b^3*c^2*d*f*k^3*1 - 3*a^3*b \\
& ^3*c^2*d*e*k^3*m - 3*a^2*b^2*c^4*e^3*g*h*m - 33*a^3*b^2*c^3*d*e*j^3*m - 27* \\
& a^4*b*c^3*e*f*h^2*m^2 - 27*a^3*b*c^4*d^2*e*k*1^2 - 18*a^4*b*c^3*d*e*j^2*m^2 \\
& - 18*a^3*b*c^4*e*f^2*j^2*k - 18*a^3*b*c^4*d*f^2*j^2*1 - 9*a^4*b^2*c^2*d*e*
\end{aligned}$$

$$\begin{aligned}
& j^3m^3 + 9a^4b^3c^3d^2g^2h^2m^2 + 9a^4b^3c^3d^2e^2k^2l^2 + 9a^3b^3c^4f^2 \\
& *g^2h^2k + 9a^3b^3c^4e^2f^2j^2k^2 + 9a^3b^3c^4d^2f^2j^2l^2 + 9a^3b^3c^4e \\
& *f^2h^2m + 9a^3b^3c^4d^2e^2k^2l - 9a^2b^5c^3d^2e^2j^2m^2 + 9a^2b^4 \\
& *c^2d^2e^2j^3m - 9a^2b^3c^3d^2g^3h^2m + 9a^2b^3c^5d^2e^2k^2l + 9a^2b^3 \\
& *c^5d^2e^2j^2m + 9a^2b^4c^3d^2g^2h^2m - 6a^3b^2c^3d^2g^2j^3k - 3a^ \\
& ^3b^3c^2f^2g^2h^2k^3 + 3a^3b^2c^3e^2f^2j^3k + 3a^3b^2c^3d^2f^2j^3l + \\
& 3a^2b^2c^4e^2f^3j^2k + 3a^2b^2c^4d^2f^3j^2l + 45a^3b^3c^4d^2g^2h^2l^ \\
& ^2 + 36a^4b^2c^2e^2f^2g^2m^3 + 36a^4b^2c^2d^2f^2h^2m^3 - 27a^3b^3c^4e^2 \\
& *g^2h^2k^2 - 27a^3b^3c^4d^2g^2h^2l - 18a^3b^3c^4f^2g^2h^2j^2 + 18a^3b^3c^ \\
& ^4d^2e^2j^2l^2 + 15a^3b^3c^2d^2e^2j^2l^3 + 12a^2b^2c^4e^2f^3g^2m + 12a^ \\
& ^2b^2c^4d^2f^3h^2m + 9a^3b^3c^4f^2g^2h^2j + 9a^3b^3c^4e^2g^2h^2k + 9 \\
& *a^3b^3c^4d^2f^2j^2k^2 + 9a^2b^3c^5d^2f^2j^2k + 9a^2b^5c^2d^2g^2h^2l^2 \\
& - 9a^2b^4c^3d^2g^2h^2l - 6a^2b^2c^4e^2f^3h^2l + 3a^3b^2c^3f^2g^2h^2j \\
& ^3 + 3a^2b^2c^4f^3g^2h^2j + 45a^3b^3c^4d^2f^2g^2m^2 - 27a^2b^3c^5d^2 \\
& *f^2g^2m + 18a^3b^3c^4e^2f^2g^2l^2 + 15a^3b^3c^2e^2f^2g^2l^3 - 12a^3b^2 \\
& *c^3d^2e^2j^2k^3 + 9a^3b^3c^4d^2e^2h^2m^2 + 9a^3b^3c^4e^2g^2h^2j^2 + 9a^3b \\
& *c^4e^2f^2h^2k^2 - 9a^2b^3c^3d^2f^2h^3l + 9a^2b^3c^5d^2f^2h^2l + 9a^2 \\
& *b^5c^2d^2f^2g^2m^2 + 9a^2b^3c^4d^2f^2g^2m + 6a^3b^3c^2d^2f^2h^2l^3 + 3 \\
& *a^2b^4c^2d^2e^2j^2k^3 + 18a^3b^3c^4e^2f^2g^2k^2 + 18a^2b^3c^5d^2g^2h^2 \\
& *j + 18a^2b^3c^5d^2f^2g^2l + 18a^2b^3c^5d^2e^2g^2m - 12a^3b^2c^3d^2 \\
& *f^2h^2k^3 + 9a^3b^3c^4e^2f^2h^2j^2 + 9a^3b^3c^4d^2f^2g^2l^2 + 9a^3b^3c^4d \\
& *e^2g^2m^2 + 9a^3b^3c^4d^2g^2h^2j^2 + 9a^2b^2c^4e^2f^2g^3k + 9a^2b^2c^ \\
& ^4d^2g^3h^2j + 9a^2b^2c^4d^2f^2g^3l + 9a^2b^2c^4d^2e^2g^3m + 9a^2b \\
& *c^5e^2f^2h^2j + 9a^2b^3c^5e^2f^2g^2k - 9a^2b^3c^4d^2g^2h^2j - 9a^2 \\
& *b^3c^4d^2f^2g^2l - 9a^2b^3c^4d^2e^2g^2m - 3a^3b^2c^3e^2f^2g^2k^3 + 3 \\
& *a^2b^4c^2e^2f^2g^2k^3 + 3a^2b^4c^2d^2f^2h^2k^3 - 54a^3b^3c^4d^2e^2f^2m^2 \\
& - 51a^3b^3c^2d^2e^2f^2m^3 - 27a^3b^3c^4d^2e^2g^2l^2 + 9a^3b^3c^4d^2e^2h^ \\
& ^2k^2 + 9a^2b^3c^5e^2f^2g^2j + 9a^2b^3c^5d^2f^2h^2j + 9a^2b^3c^5d^2 \\
& *e^2h^2k + 9a^2b^3c^5d^2e^2g^2l - 9a^2b^5c^2d^2e^2f^2m^2 - 9a^2b^4c^3d^ \\
& ^2e^2g^2l - 9a^2b^2c^5d^2e^2g^2l - 9a^2b^2c^5d^2e^2f^2m - 3a^2b^3 \\
& *c^3e^2f^2g^2j^3 - 3a^2b^3c^3d^2f^2h^2j^3 + 36a^3b^2c^3d^2e^2f^2l^3 - 27a^ \\
& ^2b^3c^5d^2f^2g^2j^2 - 18a^2b^4c^2d^2e^2f^2l^3 - 18a^2b^3c^5d^2e^2h^2j + \\
& 9a^2b^3c^5d^2e^2h^2j^2 + 9a^2b^3c^5d^2f^2g^2j + 9a^2b^4c^3d^2e^2f^2l^ \\
& ^2 + 9a^2b^3c^4d^2f^2g^2j^2 - 9a^2b^2c^5d^2f^2g^2j - 9a^2b^2c^5d^2e^2f^ \\
& ^2l + 3a^2b^2c^4d^2e^2h^3j - 18a^2b^3c^5e^2f^2g^2h^2 + 18a^2b^3c^5d^ \\
& ^2e^2f^2k^2 + 15a^2b^3c^3d^2e^2f^2k^3 + 9a^2b^3c^5e^2f^2g^2h + 9a^2b^3c^ \\
& ^5d^2e^2g^2j^2 - 9a^2b^3c^4d^2e^2f^2k^2 + 9a^2b^2c^5d^2e^2g^2j - 9a^2b^2 \\
& *c^5d^2e^2f^2k + 3a^2b^2c^4e^2f^2g^2h^3 + 18a^2b^3c^5d^2e^2f^2j^2 + 9a^ \\
& ^2b^3c^5d^2f^2g^2h^2 - 9a^2b^3c^4d^2e^2f^2j^2 + 9a^2b^2c^5d^2f^2g^2h - \\
& 3a^2b^2c^4d^2e^2f^2j^3 + 9a^2b^3c^5d^2e^2g^2h^2 - 9a^2b^2c^5d^2e^2g^2h^2 \\
& + 9a^2b^2c^5d^2e^2f^2h^2 - 36a^6c^2f^2j^2k^2l^2m^2 + 36a^5c^3f^2j^2k^2l^ \\
& *m - 36a^5c^3e^2f^2h^2j^2l^2m + 36a^5c^3e^2h^2j^2l^2m - 18a^6b^3c^j^2k^2l^2m^ \\
& ^2 + 9a^6b^3c^j^2k^2l^2m + 3a^5b^2c^j^3k^2l^2m - 36a^5c^3f^2g^2j^2k^2l^2m \\
& - 36a^5c^3e^2f^2k^2l^2m + 36a^5c^3d^2g^2k^2l^2m - 36a^4c^4d^2g^2k^2l^2m \\
& - 36a^5c^3e^2h^2j^2k^2l^2 - 36a^5c^3e^2f^2j^2l^2m - 36a^5c^3d^2f^2k^2l^2m
\end{aligned}$$

$$\begin{aligned}
& + 36a^4c^4e^2h^2jk^2l + 36a^4c^4e^2f^2j^2lm + 9a^6b^2c^2h^2k^2lm^2 - \\
& 3a^4b^3c^2h^3k^2lm - 36a^5c^3e^2g^2h^2lm + 36a^5c^3e^2f^2j^2km^2 - \\
& 36a^5c^3d^2g^2j^2km^2 + 36a^5c^3d^2f^2j^2lm^2 - 36a^5c^3d^2e^2k^2lm^2 + \\
& 36a^4c^4e^2g^2h^2lm - 36a^4c^4e^2f^2j^2km - 36a^4c^4d^2f^2j^2lm + \\
& 9a^6b^2c^2h^2j^2lm^2 + 9a^6b^2c^2g^2k^2lm^2 + 9a^5b^2c^2g^2k^3lm + 3a^ \\
& ^3b^4c^2g^3k^2lm + 36a^5c^3f^2g^2h^2jm^2 + 36a^5c^3e^2f^2h^2lm^2 - 36a^ \\
& ^4c^4f^2g^2h^2jm - 36a^4c^4e^2f^2h^2lm - 24a^4b^2c^3f^3k^2lm - 12a^ \\
& ^5b^2c^2h^2j^3k^2lm - 12a^5b^2c^2g^2j^3lm - 3a^2b^5c^2f^3k^2lm - 36a^ \\
& ^4c^4e^2g^2h^2k^2lm - 36a^4c^4e^2f^2g^2lm + 12a^5b^2c^2e^2k^2lm^3 - 6a^5 \\
& b^2c^2f^2j^2lm^3 + 3a^5b^2c^2h^2j^2k^2lm^3 + 48a^3b^2c^4d^3k^2lm + 36a^4c^ \\
& ^4e^2f^2h^2jm + 36a^4c^4d^2g^2h^2k^2lm - 36a^4c^4d^2f^2h^2k^2lm - 36a^4c^ \\
& ^4d^2e^2j^2k^2lm + 24a^5b^2c^2d^2k^3lm + 21a^2b^5c^2d^3k^2lm - 12a^5b^ \\
& ^2c^2g^2j^2k^3lm - 9a^4b^3c^2d^2k^3lm + 6a^5b^2c^2f^2j^2k^3lm + 3a^5b^2 \\
& c^2g^2h^2lm^3 - 36a^4c^4e^2f^2h^2j^2lm - 12a^5b^2c^2g^2h^2k^3lm - 3a^5b^2c^ \\
& c^2e^2j^2k^2lm^3 - 3a^5b^2c^2d^2j^2lm^3 - 36a^4c^4d^2g^2h^2j^2k^2lm - 36a^4c^4d^ \\
& ^2f^2g^2k^2lm - 36a^4c^4d^2e^2h^2k^2lm - 36a^4c^4d^2e^2g^2k^2lm + 36a^3c^5d^ \\
& ^2g^2h^2jk + 36a^3c^5d^2f^2g^2k^2lm - 36a^3c^5d^2f^2g^2j^2lm + 36a^3c^5d^ \\
& ^2e^2h^2k^2lm + 36a^3c^5d^2e^2g^2k^2lm - 36a^3c^5d^2e^2f^2lm + 24a^5b^2c^ \\
& ^2e^2h^2lm^3 - 24a^3b^2c^4e^3j^2k^2lm - 12a^5b^2c^2f^2h^2k^2lm^3 - 12a^5b^2c^ \\
& ^2f^2g^2lm^3 - 3a^5b^2c^2g^2h^2jm^3 - 3a^4b^3c^2e^2j^2k^2lm^3 - 3a^4b^3c^2e^ \\
& ^3j^2k^2lm + 36a^4c^4d^2e^2h^2j^2lm^2 + 36a^4c^4d^2e^2g^2k^2lm^2 - 36a^3c^5d^2e^ \\
& ^2h^2j^2lm - 36a^3c^5d^2e^2g^2k^2lm - 36a^3c^5d^2e^2f^2k^2lm + 24a^4b^2c^3e^ \\
& h^3k^2lm - 24a^3b^2c^4e^3g^2lm - 18a^2b^4c^3d^3j^2k^2lm - 12a^4b^2c^3g^ \\
& h^3j^2lm - 12a^4b^2c^3f^2h^3k^2lm - 12a^4b^2c^3d^2h^3lm + 12a^3b^2c^4e^ \\
& ^3h^2k^2lm + 6a^4b^2c^3f^2h^3j^2lm - 3a^4b^3c^2g^2h^2j^2lm^3 - 3a^4b^3c^2f^2h^2k^ \\
& ^2lm^3 - 3a^4b^3c^2e^2g^2lm^3 - 3a^4b^3c^2d^2h^2lm^3 - 3a^4b^3c^2e^3h^2k^ \\
& ^2lm - 3a^4b^3c^2e^3g^2lm + 36a^4c^4e^2f^2g^2h^2lm^2 - 36a^4c^4d^2e^2f^2jm^2 \\
& - 36a^3c^5d^2e^2f^2g^2h^2lm - 36a^3c^5d^2f^2g^2j^2k^2lm - 36a^3c^5d^2e^2f^2k^2lm \\
& + 36a^3c^5d^2e^2f^2j^2lm - 18a^2b^4c^3d^3h^2k^2lm - 9a^2b^4c^3d^3g^2lm + \\
& 30a^5b^2c^2d^2g^2k^2lm^3 - 30a^4b^3c^2d^2g^2k^2lm^3 - 24a^5b^2c^2e^2f^2k^2lm^3 \\
& - 24a^5b^2c^2d^2f^2lm^3 + 24a^4b^2c^3e^2g^2j^3lm + 24a^4b^2c^3d^2h^2j^3lm \\
& + 15a^4b^3c^2e^2f^2k^2lm^3 + 15a^4b^3c^2d^2f^2lm^3 + 12a^5b^2c^2e^2g^2jm^3 \\
& + 12a^5b^2c^2d^2h^2jm^3 - 12a^4b^2c^3f^2h^2j^3k^2lm - 12a^4b^2c^3f^2g^2j^3lm \\
& + 6a^4b^3c^2e^2g^2jm^3 + 6a^4b^3c^2d^2h^2jm^3 + 6a^4b^2c^3e^2h^2j^3lm + 3 \\
& 6a^3c^5d^2e^2g^2h^2lm - 24a^5b^2c^2f^2g^2h^2lm^3 + 15a^4b^3c^2f^2g^2h^2lm^3 - 9 \\
& a^2b^6c^2d^2g^2jm^2 - 6a^3b^4c^2d^2g^2k^2lm^3 - 6a^2b^4c^3e^3f^2jm + 3a^ \\
& ^3b^4c^2e^2g^2j^2lm^3 + 3a^3b^4c^2e^2f^2k^2lm^3 + 3a^3b^4c^2d^2h^2j^2lm^3 + 3a^3b^ \\
& ^4c^2d^2e^2lm^3 + 3a^2b^4c^3e^3h^2jk + 3a^2b^4c^3e^3g^2j^2lm + 3a^2b^4c^ \\
& ^3e^3f^2k^2lm + 3a^2b^4c^3d^2e^3lm - 36a^3c^5d^2e^2g^2h^2k^2lm + 30a^2b^2c^5 \\
& d^3f^2jm - 30a^2b^3c^4d^3f^2jm + 24a^3b^2c^4d^2g^3j^2lm - 24a^2b^2c^5 \\
& d^3h^2jk - 24a^2b^2c^5d^3f^2k^2lm - 24a^2b^2c^5d^3e^2k^2lm + 15a^2b^3c^4 \\
& d^3h^2jk + 15a^2b^3c^4d^3f^2k^2lm + 15a^2b^3c^4d^3e^2k^2lm - 12a^3b^2c^4 \\
& e^2g^3j^2k^2lm + 12a^2b^2c^5d^3g^2j^2lm + 6a^2b^3c^4d^3g^2j^2lm + 3a^3b^4c^2f^ \\
& ^2g^2h^2lm^3 + 3a^2b^4c^3e^3g^2h^2lm + 24a^3b^2c^4d^2g^3h^2lm - 12a^3b^2c^4f^ \\
& ^2g^3h^2k^2lm + 12a^2b^2c^5d^3g^2h^2lm - 9a^3b^4c^2d^2e^2jm^3 + 6a^3b^2c^4e^2g^
\end{aligned}$$

$$\begin{aligned}
& 3*h*1 + 6*a*b^3*c^4*d^3*g*h*m + 36*a^3*c^5*d*e*f*g*k^2 - 36*a^2*c^6*d^2*e*f \\
& *g*k - 24*a^4*b*c^3*d*e*j*1^3 - 18*a^3*b^4*c*e*f*g*m^3 - 18*a^3*b^4*c*d*f*h \\
& *m^3 - 3*a^2*b^5*c*d*e*j*1^3 - 3*a*b^3*c^4*d*e^3*j*1 - 24*a^4*b*c^3*e*f*g*1 \\
& ^3 + 24*a^3*b*c^4*d*f*h^3*1 + 12*a^4*b*c^3*d*f*h*1^3 - 12*a^3*b*c^4*e*g*h^3 \\
& *j - 12*a^3*b*c^4*e*f*h^3*k - 12*a^3*b*c^4*d*e*h^3*m - 12*a*b^2*c^5*d^3*e*j \\
& *k + 6*a^3*b*c^4*d*g*h^3*k - 3*a^2*b^5*c*e*f*g*1^3 - 3*a^2*b^5*c*d*f*h*1^3 \\
& - 3*a*b^3*c^4*e^3*g*h*j - 3*a*b^3*c^4*e^3*f*h*k - 3*a*b^3*c^4*e^3*f*g*1 - 3 \\
& *a*b^3*c^4*d*e^3*h*m + 24*a*b^2*c^5*d^3*e*h*1 - 12*a*b^2*c^5*d^3*f*h*k - 3* \\
& a*b^2*c^5*d^3*g*h*j - 3*a*b^2*c^5*d^3*f*g*1 - 3*a*b^2*c^5*d^3*e*g*m + 48*a^ \\
& 4*b*c^3*d*e*f*m^3 + 24*a^2*b*c^5*d*e*f^3*m + 21*a^2*b^5*c*d*e*f*m^3 - 12*a^ \\
& 2*b*c^5*e*f^3*g*j - 12*a^2*b*c^5*d*f^3*h*j - 9*a*b^3*c^4*d*e*f^3*m + 6*a^2* \\
& b*c^5*d*f^3*g*k + 12*a*b^2*c^5*d*e^3*f*1 - 6*a*b^2*c^5*d*e^3*g*k + 3*a*b^2*c \\
& ^5*d*e^3*h*j - 24*a^3*b*c^4*d*e*f*k^3 - 12*a^2*b*c^5*d*e*g^3*j - 3*a*b^5*c \\
& ^2*d*e*f*k^3 + 3*a*b^2*c^5*e^3*f*g*h - 12*a^2*b*c^5*d*f*g^3*h + 9*a*b^2*c^5 \\
& *d*e*f^3*j + 9*a*b*c^6*d^2*e^2*f*j + 3*a*b^4*c^3*d*e*f*j^3 + 9*a*b*c^6*d^2* \\
& e^2*g*h + 9*a*b*c^6*d^2*e*f^2*h - 3*a*b^3*c^4*d*e*f*h^3 - 18*a*b*c^6*d^2*e* \\
& f*g^2 + 9*a*b*c^6*d*e^2*f^2*g + 3*a*b^2*c^5*d*e*f*g^3 - 36*a^4*b^2*c^2*e^2* \\
& k*1^2*m - 9*a^4*b^2*c^2*g^2*j^2*k*m + 45*a^3*b^3*c^2*d^2*k^2*1*m + 36*a^4*b \\
& ^2*c^2*e^2*j*1*m^2 + 9*a^4*b^2*c^2*g^2*j*k^2*1 + 9*a^3*b^3*c^2*e^2*j^2*1*m \\
& + 9*a^4*b^2*c^2*g^2*h*k^2*m - 9*a^4*b^2*c^2*f^2*h*1^2*m - 9*a^3*b^3*c^2*f^2 \\
& *j^2*k*1 - 45*a^3*b^3*c^2*d^2*j*k*m^2 + 36*a^3*b^2*c^3*d^2*j^2*k*m + 18*a^4 \\
& *b^2*c^2*f^2*h*k*m^2 + 18*a^4*b^2*c^2*f^2*g*1*m^2 - 9*a^4*b^2*c^2*g^2*h*k*1 \\
& ^2 - 9*a^4*b^2*c^2*f*h^2*k^2*m - 9*a^4*b^2*c^2*f*g^2*1^2*m - 9*a^4*b^2*c^2* \\
& e*j^2*k^2*1 - 9*a^4*b^2*c^2*d*j^2*k^2*m - 9*a^3*b^3*c^2*e^2*j*k*1^2 - 9*a^2 \\
& *b^4*c^2*d^2*j^2*k*m - 36*a^3*b^2*c^3*d^2*j*k^2*1 - 27*a^3*b^2*c^3*e^2*h^2* \\
& k*m + 9*a^4*b^2*c^2*g*h^2*j*1^2 + 9*a^4*b^2*c^2*f*h^2*k*1^2 - 9*a^4*b^2*c^2 \\
& *f*g^2*k*m^2 - 9*a^4*b^2*c^2*e*g^2*1*m^2 - 9*a^4*b^2*c^2*d*j^2*k*1^2 + 9*a^ \\
& 4*b^2*c^2*d*h^2*1^2*m - 9*a^3*b^3*c^2*e^2*g*1^2*m + 9*a^2*b^4*c^2*e^2*h^2*k \\
& *m + 9*a^2*b^4*c^2*d^2*j*k^2*1 - 45*a^3*b^3*c^2*e^2*h*j*m^2 + 36*a^4*b^2*c^ \\
& 2*e*h^2*j*m^2 + 36*a^3*b^2*c^3*e^2*h*j^2*m - 36*a^3*b^2*c^3*d^2*h*k^2*m + 3 \\
& 6*a^2*b^3*c^3*d^2*g^2*1*m - 9*a^4*b^2*c^2*f*h*j^2*1^2 - 9*a^4*b^2*c^2*d*h^2 \\
& *k*m^2 + 9*a^3*b^3*c^2*f^2*h*j*1^2 + 9*a^3*b^3*c^2*e^2*f*1*m^2 + 9*a^3*b^3* \\
& c^2*e*h^2*j^2*m - 9*a^3*b^2*c^3*f^2*h^2*j*1 - 9*a^2*b^4*c^2*e^2*h*j^2*m + 9 \\
& *a^2*b^4*c^2*d^2*h*k^2*m + 36*a^3*b^2*c^3*d^2*h*k*1^2 - 27*a^4*b^2*c^2*e*g* \\
& j^2*m^2 - 27*a^4*b^2*c^2*d*h*j^2*m^2 - 9*a^4*b^2*c^2*d*h*k^2*1^2 - 9*a^3*b^ \\
& 3*c^2*e*f^2*k*m^2 - 9*a^3*b^3*c^2*d*f^2*1*m^2 + 9*a^3*b^2*c^3*f^2*h*j^2*k + \\
& 9*a^3*b^2*c^3*f^2*g*j^2*1 - 9*a^3*b^2*c^3*e^2*g*k^2*1 - 9*a^3*b^2*c^3*e^2* \\
& f*k^2*m - 9*a^3*b^2*c^3*d^2*f*1^2*m - 9*a^2*b^4*c^2*d^2*h*k*1^2 + 9*a^2*b^3 \\
& *c^3*d^2*h^2*k*1 - 81*a^3*b^2*c^3*d^2*g*j*m^2 + 54*a^2*b^4*c^2*d^2*g*j*m^2 \\
& - 45*a^3*b^3*c^2*d*g^2*j*m^2 - 45*a^2*b^3*c^3*d^2*g*j^2*m + 36*a^3*b^2*c^3* \\
& d^2*f*k*m^2 + 36*a^3*b^2*c^3*d*g^2*j^2*m + 18*a^3*b^2*c^3*e^2*g*j*1^2 + 18* \\
& a^3*b^2*c^3*e^2*f*k*1^2 + 18*a^3*b^2*c^3*d*e^2*1^2*m - 9*a^4*b^2*c^2*d*f*k^ \\
& 2*m^2 - 9*a^3*b^3*c^2*f^2*g*h*m^2 - 9*a^3*b^3*c^2*d*h^2*j*1^2 - 9*a^3*b^2*c \\
& ^3*f^2*g*j*k^2 - 9*a^3*b^2*c^3*d^2*e*1*m^2 - 9*a^3*b^2*c^3*f*g^2*h^2*m - 9* \\
& a^3*b^2*c^3*e*g^2*j^2*1 - 9*a^3*b^2*c^3*e*f^2*k^2*1 - 9*a^2*b^4*c^2*d^2*f*k
\end{aligned}$$

$$\begin{aligned}
& *m^2 - 9a^2b^4c^2*d*g^2*j^2*m - 9a^2b^3c^3*e^2*h^2*j*k - 9a^2b^2c^4*d^2*f^2*k*m - 27a^2b^2c^4*d^2*g^2*j*1 - 9a^3b^3c^2*f*g*h^2*1^2 + 9a^3b^2c^3*e*g^2*j*k^2 - 9a^3b^2c^3*e*f^2*j*1^2 - 9a^3b^2c^3*d*h^2*j^2*k - 9a^3b^2c^3*d*f^2*k*1^2 - 9a^3b^2c^3*d*e^2*k*m^2 - 9a^2b^3c^3*e^2*g*h^2*m - 9a^2b^3c^3*d^2*h*j*k^2 - 9a^2b^3c^3*d^2*f*k^2*1 - 9a^2b^3c^3*d^2*e*k^2*m + 36a^3b^3c^2*d*e*j^2*m^2 + 36a^3b^2c^3*e^2*f*h*m^2 - 27a^2b^2c^4*d^2*g^2*h*m + 9a^3b^3c^2*e*f*h^2*m^2 + 9a^3b^2c^3*f*g^2*h*k^2 - 9a^2b^4c^2*e^2*f*h*m^2 + 9a^2b^3c^3*d^2*e*k*1^2 - 9a^2b^2c^4*e^2*f^2*h*m - 45a^2b^3c^3*d^2*g*h*1^2 - 36a^3b^2c^3*e*f^2*g*m^2 + 36a^3b^2c^3*d*g^2*h*1^2 - 36a^3b^2c^3*d*f^2*h*m^2 + 36a^2b^2c^4*d^2*g*h^2*1 - 9a^3b^2c^3*e*g*h^2*k^2 + 9a^2b^4c^2*e*f^2*g*m^2 - 9a^2b^4c^2*d*g^2*h*1^2 + 9a^2b^4c^2*d*f^2*h*m^2 + 9a^2b^3c^3*e^2*g*h*k^2 + 9a^2b^3c^3*d*g^2*h^2*1 - 9a^2b^3c^3*d*e^2*j*1^2 - 9a^2b^2c^4*e^2*g^2*h*k - 9a^2b^2c^4*e^2*f*g^2*m - 9a^2b^2c^4*d^2*f*j^2*k - 9a^2b^2c^4*d^2*f*h^2*m - 9a^2b^2c^4*d^2*e*j^2*1 - 45a^2b^3c^3*d^2*f*g*m^2 + 36a^3b^2c^3*d*f*g^2*m^2 - 27a^3b^2c^3*d*f*h^2*1^2 + 18a^2b^2c^4*d^2*e*j*k^2 + 9a^2b^4c^2*d*f*h^2*1^2 - 9a^2b^4c^2*d*f*g^2*m^2 - 9a^2b^3c^3*e^2*f*g*1^2 + 9a^2b^2c^4*e^2*g*h^2*j + 9a^2b^2c^4*e^2*f*h^2*k - 9a^2b^2c^4*e*f^2*g^2*1 - 9a^2b^2c^4*d*f^2*g^2*m - 9a^2b^2c^4*d*e^2*j^2*k + 9a^2b^2c^4*d*e^2*h^2*m + 18a^4b^2c^2*f^2*j^2*m^2 + 18a^3b^2c^3*e^2*h^2*1^2 - 9a^2b^4c^2*e^2*h^2*1^2 + 18a^2b^2c^4*d^2*g^2*k^2 + 12a^6c^2*j^3*k*1*m + 3a^6b^2*j*k*1*m^3 - 12a^6c^2*g*k^3*1*m - 12a^5c^3*g^3*k*1*m - 24a^6c^2*e*k*1^3*m - 24a^4c^4*e^3*k*1*m + 12a^6c^2*h*j*k*1^3 + 12a^6c^2*f*j*1^3*m + 12a^5c^3*h^3*j*k*1 - 3a^5b^3*h*j*k*m^3 - 3a^5b^3*g*j*1*m^3 - 3a^5b^3*f*k*1*m^3 + 12a^6c^2*g*h*1^3*m + 12a^5c^3*g*h^3*1*m - 12a^6c^2*e*j*k*m^3 - 12a^6c^2*d*j*1*m^3 - 12a^5c^3*f*j^3*k*1 - 12a^5c^3*e*j^3*k*m - 12a^5c^3*d*j^3*1*m - 12a^4c^4*f^3*j*k*1 + 24a^6c^2*f*h*k*m^3 + 24a^6c^2*f*g*1*m^3 + 24a^4c^4*f^3*h*k*m + 24a^4c^4*f^3*g*1*m - 12a^6c^2*g*h*j*m^3 - 12a^6c^2*e*h*1*m^3 - 12a^5c^3*g*h*j^3*m + 3b^6c^2*d^3*j*k*1 + 3a^4b^4*e*j*k*m^3 + 3a^4b^4*d*j*1*m^3 - 24a^5c^3*d*j*k^3*1 - 24a^3c^5*d^3*j*k*1 - 6a^4b^4*e*h*1*m^3 + 3b^6c^2*d^3*h*k*m + 3b^6c^2*d^3*g*1*m + 3a^6b*c*j^2*1^3*m + 3a^4b^4*g*h*j*m^3 + 3a^4b^4*f*h*k*m^3 + 3a^4b^4*f*g*1*m^3 - 24a^5c^3*d*h*k^3*m - 24a^3c^5*d^3*h*k*m + 12a^5c^3*g*h*j*k^3 + 12a^5c^3*f*g*k^3*1 + 12a^5c^3*e*h*k^3*1 + 12a^5c^3*e*g*k^3*m + 12a^4c^4*g^3*h*j*k + 12a^4c^4*f*g^3*k*1 + 12a^4c^4*f*g^3*j*m + 12a^4c^4*e*g^3*k*m + 12a^4c^4*d*g^3*1*m + 12a^3c^5*d^3*g*1*m + 3a^6b*c*j*k^3*m^2 - 9a^6b*c*h^2*1*m^3 - 3a^5b*c^2*j^4*k*1 + 24a^5c^3*e*g*j*1^3 + 24a^5c^3*e*f*k*1^3 + 24a^5c^3*d*e*1^3*m + 24a^3c^5*e^3*g*j*1 + 24a^3c^5*e^3*f*k*1 + 24a^3c^5*d*e^3*1*m - 12a^5c^3*d*h*j*1^3 - 12a^5c^3*d*g*k*1^3 - 12a^4c^4*e*h^3*j*k - 12a^4c^4*d*h^3*j*1 - 12a^3c^5*e^3*h*j*k - 12a^3c^5*e^3*f*j*m + 9a^4b*c^3*g^4*1*m + 6b^5c^3*d^3*f*j*m + 6a^3b^5*d*g*k*m^3 - 3b^5c^3*d^3*h*j*k - 3b^5c^3*d^3*g*j*1 - 3b^5c^3*d^3*f*k*1 - 3b^5c^3*d^3*e*k*m - 3a^3b^5*e*g*j*m^3 - 3a^3b^5*e*f*k*m^3 - 3a^3b^5*d*h*j*m^3 - 3a^3b^5*d*f*1*m^3 - 12a^5c^3*f*g*h*1^3 - 12a^4c^4*f*g*h^3
\end{aligned}$$

$$\begin{aligned}
& *l - 12*a^4*c^4*e*g*h^3*m - 12*a^3*c^5*e^3*g*h*m - 9*a^6*b*c*g*k^2*m^3 - 3* \\
& b^5*c^3*d^3*g*h*m + 3*a^6*b*c*f*l^3*m^2 - 3*a^3*b^5*f*g*h*m^3 + 12*a^5*c^3* \\
& d*e*j*m^3 + 12*a^4*c^4*e*f*j^3*k + 12*a^4*c^4*d*g*j^3*k + 12*a^4*c^4*d*f*j^ \\
& 3*l + 12*a^4*c^4*d*e*j^3*m + 12*a^3*c^5*e*f^3*j*k + 12*a^3*c^5*d*f^3*j*l - \\
& 9*a^6*b*c*e*l^2*m^3 - 24*a^5*c^3*e*f*g*m^3 - 24*a^5*c^3*d*f*h*m^3 - 24*a^3* \\
& c^5*e*f^3*g*m - 24*a^3*c^5*d*f^3*h*m - 15*a^2*b*c^5*d^4*l*m + 15*a*b^3*c^4* \\
& d^4*l*m + 12*a^4*c^4*f*g*h*j^3 + 12*a^3*c^5*f^3*g*h*j + 12*a^3*c^5*e*f^3*h* \\
& l + 9*a^3*b*c^4*f^4*k*l - 9*a^3*b*c^4*f^4*j*m + 3*b^4*c^4*d^3*e*j*k + 3*a^5* \\
& b^2*c*g*j*l^4 + 3*a^5*b^2*c*f*k*l^4 + 3*a^5*b^2*c*d*l^4*m - 3*a^5*b*c^2*h* \\
& j*k^4 - 3*a^5*b*c^2*f*k^4*l - 3*a^5*b*c^2*e*k^4*m - 3*a^4*b*c^3*h^4*j*k + 3* \\
& a^2*b^6*d*e*j*m^3 + 3*a*b^4*c^3*e^4*k*m + 24*a^4*c^4*d*e*j*k^3 + 24*a^2*c^ \\
& 6*d^3*e*j*k - 6*b^4*c^4*d^3*e*h*l + 3*b^4*c^4*d^3*g*h*j + 3*b^4*c^4*d^3*f*h* \\
& k + 3*b^4*c^4*d^3*f*g*l + 3*b^4*c^4*d^3*e*g*m - 3*a^4*b*c^3*g*h^4*m + 3*a^ \\
& 2*b^6*e*f*g*m^3 + 3*a^2*b^6*d*f*h*m^3 - 3*a*b^6*c*e^3*j*m^2 + 24*a^4*c^4*d* \\
& f*h*k^3 + 24*a^2*c^6*d^3*f*h*k - 12*a^4*c^4*e*f*g*k^3 - 12*a^3*c^5*e*f*g^3* \\
& k - 12*a^3*c^5*d*g^3*h*j - 12*a^3*c^5*d*f*g^3*l - 12*a^3*c^5*d*e*g^3*m - 12* \\
& a^2*c^6*d^3*g*h*j - 12*a^2*c^6*d^3*f*g*l - 12*a^2*c^6*d^3*e*h*l - 12*a^2*c^ \\
& 6*d^3*e*g*m - 12*a*b^2*c^5*d^4*j*l + 9*a^5*b*c^2*d*j*l^4 + 9*a^2*b*c^5*e^4* \\
& j*k - 3*a^4*b^3*c*d*j*l^4 - 3*a^4*b*c^3*e*j^4*k - 3*a^4*b*c^3*d*j^4*l - 3* \\
& a*b^3*c^4*e^4*j*k - 24*a^4*c^4*d*e*f*l^3 - 24*a^2*c^6*d*e^3*f*l - 12*a^5*b^ \\
& 2*c*e*g*m^4 - 12*a^5*b^2*c*d*h*m^4 + 12*a^3*c^5*d*e*h^3*j + 12*a^2*c^6*d*e^ \\
& 3*h*j + 12*a^2*c^6*d*e^3*g*k - 12*a*b^2*c^5*d^4*h*m + 9*a^5*b*c^2*f*g*l^4 - \\
& 9*a^5*b*c^2*e*h*l^4 - 9*a^2*b*c^5*e^4*h*l + 9*a^2*b*c^5*e^4*g*m + 6*a^4*b^ \\
& 3*c*e*h*l^4 + 6*a*b^3*c^4*e^4*h*l - 3*b^3*c^5*d^3*e*g*j - 3*b^3*c^5*d^3*e*f* \\
& k - 3*a^4*b^3*c*f*g*l^4 - 3*a^4*b*c^3*g*h*j^4 - 3*a^3*b*c^4*g^4*h*j - 3*a^ \\
& 3*b*c^4*f*g^4*l - 3*a^3*b*c^4*e*g^4*m - 3*a*b^3*c^4*e^4*g*m + 12*a^3*c^5*e* \\
& f*g*h^3 + 12*a^2*c^6*e^3*f*g*h - 3*b^3*c^5*d^3*f*g*h - 12*a^3*c^5*d*e*f*j^3 \\
& - 12*a^2*c^6*d*e*f^3*j - 3*a*b^6*c*d^2*g*l^3 - 15*a^5*b*c^2*d*e*m^4 + 15*a \\
& ^4*b^3*c*d*e*m^4 + 9*a^4*b*c^3*e*f*k^4 - 9*a^4*b*c^3*d*g*k^4 + 3*a^3*b^4*c* \\
& d*f*l^4 - 3*a^3*b*c^4*d*h^4*j - 3*a^2*b*c^5*e*f^4*k - 3*a^2*b*c^5*d*f^4*l + \\
& 3*a*b^2*c^5*e^4*g*j + 3*a*b^2*c^5*e^4*f*k + 3*a*b^2*c^5*d*e^4*m - 9*a*b*c^ \\
& 6*d^3*e^2*l + 3*b^2*c^6*d^3*e*f*g - 3*a^3*b*c^4*f*g*h^4 - 3*a^2*b*c^5*f^4*g* \\
& h + 12*a^2*c^6*d*e*f*g^3 - 9*a*b*c^6*d^3*f^2*j + 3*a*b*c^6*d^2*e^3*k + 9*a \\
& ^3*b*c^4*d*e*j^4 - 3*a^2*b*c^5*e*f*g^4 - 9*a*b*c^6*d^3*e*h^2 + 3*a*b*c^6*d^ \\
& 2*f^3*g + 3*a*b*c^6*d*e^3*g^2 - 3*a^4*b^2*c^2*h^3*j^2*m + 12*a^4*b^2*c^2*g^ \\
& 3*j*m^2 - 3*a^4*b^2*c^2*f^2*k^3*m + 3*a^3*b^3*c^2*g^3*j^2*m - 9*a^3*b^4*c*f \\
& ^2*j^2*m^2 + 9*a^3*b^3*c^2*f^2*j^3*m - 6*a^3*b^3*c^2*f^3*j*m^2 - 6*a^3*b^2*c^ \\
& 3*f^3*j^2*m - 3*a^2*b^4*c^2*f^3*j^2*m - 27*a^4*b^2*c^2*d^2*k*m^3 - 27*a^3* \\
& b^2*c^3*e^3*j*m^2 + 18*a^2*b^4*c^2*e^3*j*m^2 - 15*a^2*b^3*c^3*e^3*j^2*m + \\
& 12*a^4*b^2*c^2*f^2*j*l^3 + 3*a^3*b^3*c^2*e^2*k^3*l + 42*a^2*b^3*c^3*d^3*j*m \\
& ^2 - 27*a^2*b^2*c^4*d^3*j^2*m - 15*a^3*b^3*c^2*d^2*k*l^3 - 3*a^4*b^2*c^2*f* \\
& j^2*k^3 - 3*a^4*b^2*c^2*f*h^3*m^2 + 3*a^3*b^3*c^2*g^3*h*l^2 + 3*a^3*b^3*c^2* \\
& f^2*j*k^3 - 3*a^3*b^2*c^3*g^3*h^2*l - 3*a^3*b^2*c^3*e^2*j^3*l - 27*a^4*b^2* \\
& c^2*e^2*h*m^3 + 12*a^3*b^2*c^3*f^3*h*l^2 + 3*a^3*b^3*c^2*f*g^3*m^2 - 3*a^2* \\
& b^4*c^2*f^3*h*l^2 + 3*a^2*b^3*c^3*f^3*h^2*l + 9*a^3*b^3*c^2*e*h^3*l^2 + 9*
\end{aligned}$$

$$\begin{aligned}
& ^2*1^3 - 6*a^6*c^2*f*k^3*m^2 - 6*a^5*c^3*h^2*j^3*1 - 6*a^5*c^3*g^3*j*m^2 + \\
& 6*a^5*c^3*f^2*k^3*m + 3*a^5*b^3*g*k^2*m^3 - 3*a^4*b^4*g^2*k*m^3 + 12*a^6*c^ \\
& 2*f*j^2*m^3 + 12*a^4*c^4*f^3*j^2*m + 3*a^5*b^3*e^1^2*m^3 + 3*a^3*b^5*e^2*1* \\
& m^3 - 6*a^6*c^2*d*k^2*m^3 - 6*a^5*c^3*f^2*j*1^3 + 6*a^5*c^3*d^2*k*m^3 - 6*a \\
& ^5*c^3*g*j^3*k^2 + 6*a^4*c^4*e^3*j*m^2 - 3*b^6*c^2*d^3*j^2*m - 3*a^4*b^4*f* \\
& j^2*m^3 + 3*a^3*b^5*f^2*j*m^3 + 6*a^5*c^3*f*j^2*k^3 + 6*a^5*c^3*f*h^3*m^2 - \\
& 6*a^5*c^3*e*j^3*1^2 + 6*a^4*c^4*g^3*h^2*1 - 6*a^4*c^4*f^2*h^3*m + 6*a^4*c^ \\
& 4*e^2*j^3*1 + 6*a^3*c^5*d^3*j^2*m - 3*a^4*b^4*d*k^2*m^3 - 3*a^2*b^6*d^2*k*m \\
& ^3 + 6*a^5*c^3*e^2*h*m^3 - 6*a^4*c^4*g^2*h^3*k - 6*a^4*c^4*f^3*h*1^2 + 12*a \\
& ^5*c^3*e*h^2*1^3 + 12*a^3*c^5*e^3*h^2*1 - 3*b^6*c^2*d^3*h*1^2 + 3*b^5*c^3*d \\
& ^3*h^2*1 - 3*a^5*b^2*c*j^4*m^2 + 3*a^3*b^5*e*h^2*m^3 - 3*a^2*b^6*e^2*h*m^3 \\
& + 6*a^5*c^3*d*g^2*m^3 - 6*a^4*c^4*e^2*h*k^3 - 6*a^4*c^4*f*h^3*j^2 + 6*a^4*c \\
& ^4*e*g^3*1^2 + 6*a^3*c^5*f^3*g^2*k - 6*a^3*c^5*e^2*g^3*1 + 6*a^3*c^5*d^3*h* \\
& 1^2 - 3*b^6*c^2*d^3*f*m^2 - 3*b^4*c^4*d^3*f^2*m + 6*a^4*c^4*d^2*g*1^3 + 6*a \\
& ^4*c^4*e*h^2*j^3 - 6*a^4*c^4*d*h^3*k^2 - 6*a^3*c^5*f^2*g^3*j - 6*a^3*c^5*e^ \\
& 3*g*k^2 + 6*a^3*c^5*d^3*f*m^2 + 6*a^3*c^5*d^2*h^3*k - 6*a^2*c^6*d^3*f^2*m + \\
& 4*a^5*b^2*c*h^3*m^3 + 3*b^5*c^3*d^3*g*k^2 - 3*b^4*c^4*d^3*g^2*k - 3*a^2*b^ \\
& 6*d*g^2*m^3 + a^5*b*c^2*j^3*k^3 + 12*a^4*c^4*d*g^2*k^3 + 12*a^2*c^6*d^3*g^2 \\
& *k + 6*a^5*b*c^2*h^3*1^3 + 5*a^5*b*c^2*g^3*m^3 - 5*a^4*b^3*c*g^3*m^3 + 3*b^ \\
& 5*c^3*d^3*e^1^2 + 3*b^3*c^5*d^3*e^2*1 - 3*a^5*b^2*c*h^2*1^4 + a^4*b^3*c*h^3 \\
& *1^3 + 12*a^5*b^2*c*f^2*m^4 - 6*a^3*c^5*d^2*g*j^3 + 6*a^3*c^5*d*f^3*k^2 + 6 \\
& *a^3*b^4*c*f^3*m^3 + 6*a^2*c^6*e^3*f^2*j - 6*a^2*c^6*d^2*f^3*k - 3*b^4*c^4* \\
& d^3*f*j^2 + 3*b^3*c^5*d^3*f^2*j - 3*a^2*b^2*c^4*f^5*m - 7*a^4*b*c^3*e^3*m^3 \\
& - 7*a^2*b^5*c*e^3*m^3 + 6*a^4*b*c^3*g^3*k^3 - 6*a^3*c^5*e*g^3*h^2 - 6*a^2*c \\
& ^6*d^3*f*j^2 + 5*a^4*b*c^3*f^3*1^3 + a^4*b*c^3*h^3*j^3 + a^2*b^5*c*f^3*1^3 \\
& + 6*a^3*c^5*d*g^2*h^3 - 6*a^2*c^6*e^2*f^3*h - 3*a^3*b^4*c*e^2*1^4 - 3*a*b^ \\
& 4*c^3*e^4*1^2 - 7*a^3*b*c^4*d^3*1^3 - 7*a*b^5*c^2*d^3*1^3 + 6*a^3*b*c^4*f^3 \\
& *j^3 + 5*a^3*b*c^4*e^3*k^3 + 3*b^3*c^5*d^3*e*h^2 - 3*b^2*c^6*d^3*e^2*h + a* \\
& b^5*c^2*e^3*k^3 + 12*a*b^2*c^5*d^4*k^2 - 6*a^2*c^6*d*f^3*g^2 + 6*a*b^4*c^3* \\
& d^3*k^3 - 3*a^4*b^2*c^2*d*k^5 + a^3*b*c^4*g^3*h^3 + 5*a^2*b*c^5*d^3*j^3 - 5 \\
& *a*b^3*c^4*d^3*j^3 - 9*a*c^7*d^2*e^2*f^2 + 6*a^2*b*c^5*e^3*h^3 - 3*a*b^2*c^ \\
& 5*e^4*h^2 + a^2*b*c^5*f^3*g^3 + a*b^3*c^4*e^3*h^3 + 4*a*b^2*c^5*d^3*h^3 - 3 \\
& *a*b^2*c^5*d^2*g^4 - 6*a^7*c*j*1^3*m^2 + 6*a^7*c*h*1^2*m^3 + 6*a^6*c^2*j*k^ \\
& 4*1 + 6*a^6*c^2*h*k^4*m - 6*a^5*c^3*h^4*k*m + 3*a^6*b^2*h*k*m^4 + 3*a^6*b^2 \\
& *g*1*m^4 - 3*b^5*c^3*d^4*1*m - 6*a^6*c^2*g*j*1^4 - 6*a^6*c^2*f*k*1^4 - 6*a^ \\
& 6*c^2*d*1^4*m + 6*a^5*c^3*h*j^4*k + 6*a^5*c^3*g*j^4*1 + 6*a^5*c^3*f*j^4*m - \\
& 6*a^4*c^4*g^4*j*1 + 6*a^3*c^5*e^4*k*m + 6*a^5*b^3*f*j*m^4 - 6*a^4*c^4*g^4* \\
& h*m + 3*b^7*c*d^3*j*m^2 - 3*a^5*b^3*e*k*m^4 - 3*a^5*b^3*d*1*m^4 + 3*b^4*c^4 \\
& *d^4*j*1 - 3*a^5*b^3*g*h*m^4 - 6*a^5*c^3*e*j*k^4 + 6*a^2*c^6*d^4*j*1 + 3*b^ \\
& 4*c^4*d^4*h*m + 6*a^6*c^2*e*g*m^4 + 6*a^6*c^2*d*h*m^4 + 6*a^6*b*c*j^3*m^3 - \\
& 6*a^5*c^3*f*h*k^4 + 6*a^4*c^4*g*h^4*j + 6*a^4*c^4*f*h^4*k + 6*a^4*c^4*e*h^ \\
& 4*1 + 6*a^4*c^4*d*h^4*m - 6*a^3*c^5*f^4*h*k - 6*a^3*c^5*f^4*g*1 + 6*a^2*c^6 \\
& *d^4*h*m + 3*a^5*b*c^2*j^5*m + a^6*b*c*k^3*1^3 + 3*a^4*b^4*e*g*m^4 + 3*a^4*b \\
& ^4*d*h*m^4 + 6*b^3*c^5*d^4*g*k - 3*b^3*c^5*d^4*h*j - 3*b^3*c^5*d^4*f*1 - 3 \\
& *b^3*c^5*d^4*e*m + 3*a*b^7*d^2*g*m^3 + 6*a^5*c^3*d*f*1^4 - 6*a^4*c^4*e*g*j^
\end{aligned}$$

$$\begin{aligned}
& 4 - 6a^4c^4d^4h^4j^4 + 6a^3c^5e^4g^4kj + 6a^3c^5d^4g^4k - 6a^2c^6e^4g^4kj - 6a^2c^6e^4f^4k - 6a^2c^6d^4e^4m + 3a^4b^3c^3h^5l + 6a^3c^5f^4g^4h - 3a^3b^5d^4e^4m^4 + 3b^2c^6d^4e^4j + 3a^5b^3c^2g^4k^5 + 3a^3b^3c^4g^5k + 8a^4b^6c^4d^3m^3 + 3b^2c^6d^4f^4h - 3a^5b^2c^4e^4l^5 - 3a^4b^2c^5e^4l^5 - 6a^3c^5d^4f^4h^4 + 6a^2c^6e^4f^4g + 6a^2c^6d^4f^4h + 3a^4b^3c^3f^4j^5 + 3a^2b^3c^5f^5j + 6a^4c^7d^3e^2h - 6a^4c^7d^2e^3g + 3a^3b^3c^4e^4h^5 + 6a^4b^3c^6d^3g^3 + 3a^2b^3c^5d^4g^5 + a^4b^3c^6e^3f^3 - 9a^6c^2j^2k^2l^2 - 9a^6c^2h^2k^2m^2 - 9a^6c^2g^2l^2m^2 - 18a^5c^3f^2j^2m^2 - 9a^5c^3h^2j^2k^2 - 9a^5c^3g^2j^2l^2 - 9a^5c^3f^2k^2l^2 - 9a^5c^3e^2k^2m^2 - 9a^5c^3d^2l^2m^2 - 9a^5c^3g^2h^2m^2 - 9a^4c^4e^2j^2k^2 - 9a^4c^4d^2j^2l^2 - 18a^4c^4e^2h^2l^2 - 9a^4c^4g^2h^2j^2 - 9a^4c^4f^2h^2k^2 - 9a^4c^4f^2g^2l^2 - 9a^4c^4e^2g^2m^2 - 9a^4c^4d^2h^2m^2 - 18a^3c^5d^2g^2k^2 - 9a^3c^5e^2g^2j^2 - 9a^3c^5e^2f^2k^2 - 9a^3c^5d^2h^2j^2 - 9a^3c^5d^2f^2l^2 - 9a^3c^5d^2e^2m^2 - 3a^4b^2c^2h^4l^2 - 18a^4b^2c^2f^3m^3 + 12a^3b^2c^3f^4m^2 - 9a^3c^5f^2g^2h^2 + 4a^4b^2c^2g^3l^3 - 3a^2b^4c^2f^4m^2 + 14a^3b^3c^2e^3m^3 - 5a^3b^3c^2f^3l^3 - 3a^4b^2c^2g^2k^4 - 3a^3b^2c^3g^4k^2 + a^3b^3c^2g^3k^3 - 20a^2b^4c^2d^3m^3 - 18a^3b^2c^3e^3l^3 + 16a^3b^2c^3d^3m^3 + 12a^4b^2c^2e^2l^4 + 12a^2b^2c^4e^4l^2 - 9a^2c^6d^2e^2j^2 + 6a^2b^4c^2e^3l^3 + 4a^3b^2c^3f^3k^3 + 14a^2b^3c^3d^3l^3 - 9a^2c^6e^2f^2g^2 - 9a^2c^6d^2f^2h^2 - 5a^2b^3c^3e^3k^3 - 3a^3b^2c^3f^2j^4 - 3a^2b^2c^4f^4j^2 + a^2b^3c^3f^3j^3 - 18a^2b^2c^4d^3k^3 + 12a^3b^2c^3d^2k^4 + 4a^2b^2c^4e^3j^3 - 3a^2b^4c^2d^2k^4 - 3a^2b^2c^4e^2h^4 + 6a^7c^4k^4m - 3a^7b^4k^4m^4 - 6a^7c^4h^4k^4m^4 - 6a^7c^4g^4l^4m^4 + 3a^6b^4c^4h^4l^5 - 6a^4c^7d^4e^4j - 6a^4c^7d^4f^4h - 3b^4c^7d^4e^4f + 6a^4c^7d^4e^4f + 3a^4b^3c^6e^5h - a^5b^2c^4j^3l^3 - a^3b^4c^4g^3l^3 - a^4b^4c^3e^3j^3 - a^4b^2c^5e^3g^3 + 3a^7b^4j^4m^5 + 6a^7c^4f^4m^5 + 6a^4c^7d^5k + 3b^4c^7d^5g - 3a^6c^2j^4m^2 - 3a^6b^2j^2m^4 + 2a^6c^2j^3l^3 + a^5b^3j^3m^3 - 2a^6c^2h^3m^3 - 3a^6c^2h^2l^4 - 3a^5c^3h^4l^2 - a^4b^6c^4e^3l^3 + 20a^5c^3f^3m^3 - 15a^6c^2f^2m^4 - 15a^4c^4f^4m^2 + 2a^5c^3h^3k^3 - 2a^5c^3g^3l^3 + a^3b^5g^3m^3 - 3a^5c^3g^2k^4 - 3a^4c^4g^4k^2 - 3a^4b^4f^2m^4 + 20a^4c^4e^3l^3 - 15a^5c^3e^2l^4 - 15a^3c^5e^4l^2 + 2a^4c^4g^3j^3 - 2a^4c^4f^3k^3 - 2a^4c^4d^3m^3 - 3b^4c^4d^4k^2 - 3a^4c^4f^2j^4 - 3a^3c^5f^4j^2 + 20a^3c^5d^3k^3 - 15a^4c^4d^2k^4 - 15a^2c^6d^4k^2 - 2a^3c^5e^3j^3 + b^5c^3d^3j^3 + 2a^3c^5f^3h^3 - 3a^3c^5e^2h^4 - 3a^2c^6e^4h^2 - 3b^2c^6d^4g^2 + 2a^2c^6e^3g^3 - 2a^2c^6d^3h^3 + b^3c^5d^3g^3 - 3a^2c^6d^2g^4 - a^4b^2c^2h^3k^3 - a^3b^2c^3g^3j^3 - a^2b^4c^2f^3k^3 - a^2b^2c^4f^3h^3 + 2a^7c^4k^3m^3 + a^7b^4l^3m^3 - 3a^7c^4j^2m^4 + 6a^3c^5f^5m - 3a^6b^2f^4m^5 + 6a^6c^2e^4l^5 + 6a^2c^6e^5l^5 + b^7c^4d^3l^3 + a^4b^7e^3m^3 - 3b^2c^6d^5k + 6a^5c^3d^4k^5 - 3a^4c^7d^4g^2 + 2a^4c^7d^3f^3 + b^4c^7d^3e^3 - a^6b^2k^3m^3 - a^4b^4h^3m^3 - a^2b^6f^3m^3 - b^6c^2d^3k^4
\end{aligned}$$

```

3 - b^4*c^4*d^3*h^3 - b^2*c^6*d^3*f^3 - b^8*d^3*m^3 - a^6*c^2*k^6 - a^5*c^3
*j^6 - a^4*c^4*h^6 - a^3*c^5*g^6 - a^2*c^6*f^6 - a^7*c*l^6 - a*c^7*e^6 - a^
8*m^6 - c^8*d^6, z, k1), k1, 1, 6) + (k*x)/c + (1*x^2)/(2*c) + (m*x^3)/(3*c
)

```

sympy [F(-1)] time = 0.00, size = 0, normalized size = 0.00

Timed out

Verification of antiderivative is not currently implemented for this CAS.

```

[In] integrate((m*x**8+l*x**7+k*x**6+j*x**5+h*x**4+g*x**3+f*x**2+e*x+d)/(c*x**6+
b*x**3+a),x)

```

[Out] Timed out

3.2 $\int \frac{1}{a+bx^n+cx^{2n}} dx$

Optimal. Leaf size=124

$$\frac{2cx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{-b\sqrt{b^2-4ac} - 4ac + b^2} - \frac{2cx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b\sqrt{b^2-4ac} - 4ac + b^2}$$

[Out] $-2*c*x*hypergeom([1, 1/n], [1+1/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-2*c*x*hypergeom([1, 1/n], [1+1/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))$

Rubi [A] time = 0.08, antiderivative size = 124, normalized size of antiderivative = 1.00, number of steps used = 3, number of rules used = 2, integrand size = 16, $\frac{\text{number of rules}}{\text{integrand size}} = 0.125$, Rules used = {1347, 245}

$$\frac{2cx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{-b\sqrt{b^2-4ac} - 4ac + b^2} - \frac{2cx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b\sqrt{b^2-4ac} - 4ac + b^2}$$

Antiderivative was successfully verified.

[In] Int[(a + b*x^n + c*x^(2*n))^(-1), x]

[Out] $(-2*c*x*Hypergeometric2F1[1, n^(-1), 1 + n^(-1), (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])])/(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c]) - (2*c*x*Hypergeometric2F1[1, n^(-1), 1 + n^(-1), (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])])/(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c])$

Rule 245

Int[((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] :> Simp[a^p*x*Hypergeometric2F1[-p, 1/n, 1/n + 1, -((b*x^n)/a)], x] /; FreeQ[{a, b, n, p}, x] && !IGtQ[p, 0] && !IntegerQ[1/n] && !ILtQ[Simplify[1/n + p], 0] && (IntegerQ[p] || GtQ[a, 0])

Rule 1347

Int[((a_) + (b_.)*(x_)^(n_) + (c_.)*(x_)^(n2_))^(p_), x_Symbol] :> With[{q = Rt[b^2 - 4*a*c, 2]}, Dist[c/q, Int[1/(b/2 - q/2 + c*x^n), x], x] - Dist[c/q, Int[1/(b/2 + q/2 + c*x^n), x], x]] /; FreeQ[{a, b, c}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0]

Rubi steps

$$\int \frac{1}{a + bx^n + cx^{2n}} dx = \frac{c \int \frac{1}{\frac{b}{2} - \frac{1}{2} \sqrt{b^2 - 4ac} + cx^n} dx}{\sqrt{b^2 - 4ac}} - \frac{c \int \frac{1}{\frac{b}{2} + \frac{1}{2} \sqrt{b^2 - 4ac} + cx^n} dx}{\sqrt{b^2 - 4ac}}$$

$$= -\frac{2cx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b - \sqrt{b^2 - 4ac}}\right)}{b^2 - 4ac - b\sqrt{b^2 - 4ac}} - \frac{2cx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b + \sqrt{b^2 - 4ac}}\right)}{b^2 - 4ac + b\sqrt{b^2 - 4ac}}$$

Mathematica [B] time = 0.27, size = 261, normalized size = 2.10

$$-2cx \left(\frac{1 - \left(\frac{x^n}{x^n - \frac{\sqrt{b^2 - 4ac} - b}{2c}} \right)^{-1/n} {}_2F_1\left(-\frac{1}{n}, -\frac{1}{n}; \frac{n-1}{n}; \frac{b - \sqrt{b^2 - 4ac}}{2cx^n + b - \sqrt{b^2 - 4ac}}\right)}{-b\sqrt{b^2 - 4ac} - 4ac + b^2} + \frac{1 - 2^{-1/n} \left(\frac{cx^n}{\sqrt{b^2 - 4ac} + b + 2cx^n} \right)^{-1/n} {}_2F_1\left(-\frac{1}{n}, -\frac{1}{n}; \frac{n-1}{n}; \frac{b + \sqrt{b^2 - 4ac}}{2cx^n + b + \sqrt{b^2 - 4ac}}\right)}{\sqrt{b^2 - 4ac} (\sqrt{b^2 - 4ac} + b)} \right)$$

Antiderivative was successfully verified.

[In] Integrate[(a + b*x^n + c*x^(2*n))^(-1), x]

[Out] -2*c*x*((1 - Hypergeometric2F1[-n^(-1), -n^(-1), (-1 + n)/n, (b - Sqrt[b^2 - 4*a*c])/(b - Sqrt[b^2 - 4*a*c] + 2*c*x^n)]/(x^n/(-1/2*(-b + Sqrt[b^2 - 4*a*c])/c + x^n))^n^(-1))/(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c]) + (1 - Hypergeometric2F1[-n^(-1), -n^(-1), (-1 + n)/n, (b + Sqrt[b^2 - 4*a*c])/(b + Sqrt[b^2 - 4*a*c] + 2*c*x^n)]/(2^n^(-1)*((c*x^n)/(b + Sqrt[b^2 - 4*a*c] + 2*c*x^n))^n^(-1)))/(Sqrt[b^2 - 4*a*c]*(b + Sqrt[b^2 - 4*a*c]))

fricas [F] time = 0.65, size = 0, normalized size = 0.00

$$\text{integral}\left(\frac{1}{cx^{2n} + bx^n + a}, x\right)$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate(1/(a+b*x^n+c*x^(2*n)), x, algorithm="fricas")

[Out] integral(1/(c*x^(2*n) + b*x^n + a), x)

giac [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{1}{cx^{2n} + bx^n + a} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate(1/(a+b*x^n+c*x^(2*n)),x, algorithm="giac")

[Out] integrate(1/(c*x^(2*n) + b*x^n + a), x)

maple [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{1}{bx^n + cx^{2n} + a} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int(1/(b*x^n+c*x^(2*n)+a),x)

[Out] int(1/(b*x^n+c*x^(2*n)+a),x)

maxima [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{1}{cx^{2n} + bx^n + a} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate(1/(a+b*x^n+c*x^(2*n)),x, algorithm="maxima")

[Out] integrate(1/(c*x^(2*n) + b*x^n + a), x)

mupad [F] time = 0.00, size = -1, normalized size = -0.01

$$\int \frac{1}{a + bx^n + cx^{2n}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int(1/(a + b*x^n + c*x^(2*n)),x)

[Out] int(1/(a + b*x^n + c*x^(2*n)), x)

sympy [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{1}{a + bx^n + cx^{2n}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate(1/(a+b*x**n+c*x**(2*n)),x)

[Out] Integral(1/(a + b*x**n + c*x**(2*n)), x)

3.3 $\int \frac{d+ex}{a+bx^n+cx^{2n}} dx$

Optimal. Leaf size=263

$$\frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{-b\sqrt{b^2-4ac} - 4ac + b^2} - \frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b\sqrt{b^2-4ac} - 4ac + b^2} - \frac{cex^2 {}_2F_1\left(1, \frac{2}{n}; \frac{n+2}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{-b\sqrt{b^2-4ac} - 4ac + b^2} - \frac{cex^2 {}_2F_1\left(1, \frac{2}{n}; \frac{n+2}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b\sqrt{b^2-4ac} - 4ac + b^2}$$

[Out] $-2*c*d*x*hypergeom([1, 1/n], [1+1/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-c*e*x^2*hypergeom([1, 2/n], [(2+n)/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-2*c*d*x*hypergeom([1, 1/n], [1+1/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))-c*e*x^2*hypergeom([1, 2/n], [(2+n)/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))$

Rubi [A] time = 0.26, antiderivative size = 263, normalized size of antiderivative = 1.00, number of steps used = 9, number of rules used = 4, integrand size = 22, $\frac{\text{number of rules}}{\text{integrand size}} = 0.182$, Rules used = {1793, 1893, 245, 364}

$$\frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{-b\sqrt{b^2-4ac} - 4ac + b^2} - \frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b\sqrt{b^2-4ac} - 4ac + b^2} - \frac{cex^2 {}_2F_1\left(1, \frac{2}{n}; \frac{n+2}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{-b\sqrt{b^2-4ac} - 4ac + b^2} - \frac{cex^2 {}_2F_1\left(1, \frac{2}{n}; \frac{n+2}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b\sqrt{b^2-4ac} - 4ac + b^2}$$

Antiderivative was successfully verified.

[In] Int[(d + e*x)/(a + b*x^n + c*x^(2*n)),x]

[Out] $(-2*c*d*x*Hypergeometric2F1[1, n^(-1), 1 + n^(-1), (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])])/(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c]) - (2*c*d*x*Hypergeometric2F1[1, n^(-1), 1 + n^(-1), (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])])/(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c]) - (c*e*x^2*Hypergeometric2F1[1, 2/n, (2 + n)/n, (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])])/(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c]) - (c*e*x^2*Hypergeometric2F1[1, 2/n, (2 + n)/n, (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])])/(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c])$

Rule 245

Int[((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*x*Hypergeometric2F1[-p, 1/n, 1/n + 1, -((b*x^n)/a)], x] /; FreeQ[{a, b, n, p}, x] && !IGtQ[p, 0] && !IntegerQ[1/n] && !ILtQ[Simplify[1/n + p], 0] && (IntegerQ[p] || GtQ[a, 0])

Rule 364

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[(a^p*(c*x)^(m + 1)*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, -((b*x^n)/a)

)]/(c*(m + 1)), x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 1793

Int[(Pq_)/((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_)), x_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Dist[(2*c)/q, Int[Pq/(b - q + 2*c*x^n), x], x] - Dist[(2*c)/q, Int[Pq/(b + q + 2*c*x^n), x], x]] /; FreeQ[{a, b, c, n}, x] && EqQ[n2, 2*n] && PolyQ[Pq, x] && NeQ[b^2 - 4*a*c, 0]

Rule 1893

Int[(Pq_)*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Int[ExpandIntegrand[Pq*(a + b*x^n)^p, x], x] /; FreeQ[{a, b, n, p}, x] && (PolyQ[Pq, x] || PolyQ[Pq, x^n])

Rubi steps

$$\begin{aligned} \int \frac{d + ex}{a + bx^n + cx^{2n}} dx &= \frac{(2c) \int \frac{d+ex}{b-\sqrt{b^2-4ac}+2cx^n} dx}{\sqrt{b^2-4ac}} - \frac{(2c) \int \frac{d+ex}{b+\sqrt{b^2-4ac}+2cx^n} dx}{\sqrt{b^2-4ac}} \\ &= \frac{(2c) \int \left(-\frac{d}{-b+\sqrt{b^2-4ac}-2cx^n} - \frac{ex}{-b+\sqrt{b^2-4ac}-2cx^n} \right) dx}{\sqrt{b^2-4ac}} - \frac{(2c) \int \left(\frac{d}{b+\sqrt{b^2-4ac}+2cx^n} + \frac{ex}{b+\sqrt{b^2-4ac}+2cx^n} \right) dx}{\sqrt{b^2-4ac}} \\ &= -\frac{(2cd) \int \frac{1}{-b+\sqrt{b^2-4ac}-2cx^n} dx}{\sqrt{b^2-4ac}} - \frac{(2cd) \int \frac{1}{b+\sqrt{b^2-4ac}+2cx^n} dx}{\sqrt{b^2-4ac}} - \frac{(2ce) \int \frac{x}{-b+\sqrt{b^2-4ac}-2cx^n} dx}{\sqrt{b^2-4ac}} \\ &= -\frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{b^2-4ac-b\sqrt{b^2-4ac}} - \frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b^2-4ac+b\sqrt{b^2-4ac}} - \frac{cex^2 {}_2F_1\left(1, \frac{2}{n}; 1 + \frac{2}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{b^2-4ac} \end{aligned}$$

Mathematica [A] time = 1.19, size = 525, normalized size = 2.00

$$cx \left(-2d \frac{\left(1 - \frac{x^n}{x^n - \frac{\sqrt{b^2-4ac}-b}{2c}} \right)^{-1/n} {}_2F_1\left(-\frac{1}{n}, -\frac{1}{n}; \frac{n-1}{n}; \frac{b-\sqrt{b^2-4ac}}{2cx^n+b-\sqrt{b^2-4ac}}\right)}{-b\sqrt{b^2-4ac}-4ac+b^2} + \frac{1 - 2^{-1/n} \left(\frac{cx^n}{\sqrt{b^2-4ac}+b+2cx^n} \right)^{-1/n} {}_2F_1\left(-\frac{1}{n}, -\frac{1}{n}; \frac{n-1}{n}; \frac{b+\sqrt{b^2-4ac}}{2cx^n+b+\sqrt{b^2-4ac}}\right)}{\sqrt{b^2-4ac} \left(\sqrt{b^2-4ac} + b \right)} \right)$$

Antiderivative was successfully verified.

[In] Integrate[(d + e*x)/(a + b*x^n + c*x^(2*n)),x]

[Out] $c*x*(-(e*x*((1 - \text{Hypergeometric2F1}[-2/n, -2/n, (-2 + n)/n, (b - \text{Sqrt}[b^2 - 4*a*c])/(b - \text{Sqrt}[b^2 - 4*a*c] + 2*c*x^n)]/(x^n/(-1/2*(-b + \text{Sqrt}[b^2 - 4*a*c]))/c + x^n))^{(2/n)})/(b^2 - 4*a*c - b*\text{Sqrt}[b^2 - 4*a*c]) + (1 - \text{Hypergeometric2F1}[-2/n, -2/n, (-2 + n)/n, (b + \text{Sqrt}[b^2 - 4*a*c])/(b + \text{Sqrt}[b^2 - 4*a*c] + 2*c*x^n)]/(4^n^{(-1)*((c*x^n)/(b + \text{Sqrt}[b^2 - 4*a*c] + 2*c*x^n))^{(2/n)})})/(\text{Sqrt}[b^2 - 4*a*c]*(b + \text{Sqrt}[b^2 - 4*a*c]))) - 2*d*((1 - \text{Hypergeometric2F1}[-n^{(-1)}, -n^{(-1)}, (-1 + n)/n, (b - \text{Sqrt}[b^2 - 4*a*c])/(b - \text{Sqrt}[b^2 - 4*a*c] + 2*c*x^n)]/(x^n/(-1/2*(-b + \text{Sqrt}[b^2 - 4*a*c]))/c + x^n))^{n^{(-1)}}/(b^2 - 4*a*c - b*\text{Sqrt}[b^2 - 4*a*c]) + (1 - \text{Hypergeometric2F1}[-n^{(-1)}, -n^{(-1)}, (-1 + n)/n, (b + \text{Sqrt}[b^2 - 4*a*c])/(b + \text{Sqrt}[b^2 - 4*a*c] + 2*c*x^n)]/(2^n^{(-1)*((c*x^n)/(b + \text{Sqrt}[b^2 - 4*a*c] + 2*c*x^n))^{n^{(-1)}}})/(\text{Sqrt}[b^2 - 4*a*c]*(b + \text{Sqrt}[b^2 - 4*a*c])))$

fricas [F] time = 0.91, size = 0, normalized size = 0.00

$$\text{integral}\left(\frac{ex + d}{cx^{2n} + bx^n + a}, x\right)$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((e*x+d)/(a+b*x^n+c*x^(2*n)),x, algorithm="fricas")

[Out] integral((e*x + d)/(c*x^(2*n) + b*x^n + a), x)

giac [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{ex + d}{cx^{2n} + bx^n + a} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((e*x+d)/(a+b*x^n+c*x^(2*n)),x, algorithm="giac")

[Out] integrate((e*x + d)/(c*x^(2*n) + b*x^n + a), x)

maple [F] time = 0.03, size = 0, normalized size = 0.00

$$\int \frac{ex + d}{bx^n + cx^{2n} + a} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((e*x+d)/(b*x^n+c*x^(2*n)+a),x)

[Out] int((e*x+d)/(b*x^n+c*x^(2*n)+a),x)

maxima [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{ex + d}{cx^{2n} + bx^n + a} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((e*x+d)/(a+b*x^n+c*x^(2*n)),x, algorithm="maxima")

[Out] integrate((e*x + d)/(c*x^(2*n) + b*x^n + a), x)

mupad [F] time = 0.00, size = -1, normalized size = -0.00

$$\int \frac{d + ex}{a + bx^n + cx^{2n}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((d + e*x)/(a + b*x^n + c*x^(2*n)),x)

[Out] int((d + e*x)/(a + b*x^n + c*x^(2*n)), x)

sympy [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{d + ex}{a + bx^n + cx^{2n}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((e*x+d)/(a+b*x**n+c*x**(2*n)),x)

[Out] Integral((d + e*x)/(a + b*x**n + c*x**(2*n)), x)

3.4 $\int \frac{d+ex+fx^2}{a+bx^n+cx^{2n}} dx$

Optimal. Leaf size=404

$$\frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{-b\sqrt{b^2-4ac}-4ac+b^2} - \frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b\sqrt{b^2-4ac}-4ac+b^2} - \frac{cex^2 {}_2F_1\left(1, \frac{2}{n}; \frac{n+2}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{-b\sqrt{b^2-4ac}-4ac+b^2} - \frac{cex^2 {}_2F_1\left(1, \frac{2}{n}; \frac{n+2}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b\sqrt{b^2-4ac}-4ac+b^2}$$

[Out] $-2*c*d*x*hypergeom([1, 1/n], [1+1/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-c*e*x^2*hypergeom([1, 2/n], [(2+n)/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-2/3*c*f*x^3*hypergeom([1, 3/n], [(3+n)/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-2*c*d*x*hypergeom([1, 1/n], [1+1/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))-c*e*x^2*hypergeom([1, 2/n], [(2+n)/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))-2/3*c*f*x^3*hypergeom([1, 3/n], [(3+n)/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))$

Rubi [A] time = 0.28, antiderivative size = 404, normalized size of antiderivative = 1.00, number of steps used = 11, number of rules used = 4, integrand size = 27, $\frac{\text{number of rules}}{\text{integrand size}} = 0.148$, Rules used = {1793, 1893, 245, 364}

$$\frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{-b\sqrt{b^2-4ac}-4ac+b^2} - \frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b\sqrt{b^2-4ac}-4ac+b^2} - \frac{cex^2 {}_2F_1\left(1, \frac{2}{n}; \frac{n+2}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{-b\sqrt{b^2-4ac}-4ac+b^2} - \frac{cex^2 {}_2F_1\left(1, \frac{2}{n}; \frac{n+2}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b\sqrt{b^2-4ac}-4ac+b^2}$$

Antiderivative was successfully verified.

[In] Int[(d + e*x + f*x^2)/(a + b*x^n + c*x^(2*n)), x]

[Out] $(-2*c*d*x*Hypergeometric2F1[1, n^(-1), 1 + n^(-1), (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])])/(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c]) - (2*c*d*x*Hypergeometric2F1[1, n^(-1), 1 + n^(-1), (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])])/(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c]) - (c*e*x^2*Hypergeometric2F1[1, 2/n, (2 + n)/n, (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])])/(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c]) - (c*e*x^2*Hypergeometric2F1[1, 2/n, (2 + n)/n, (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])])/(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c]) - (2*c*f*x^3*Hypergeometric2F1[1, 3/n, (3 + n)/n, (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])])/(3*(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c])) - (2*c*f*x^3*Hypergeometric2F1[1, 3/n, (3 + n)/n, (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])])/(3*(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c]))$

Rule 245

Int[((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*x*Hypergeometric2F1[-p, 1/n, 1/n + 1, -((b*x^n)/a)], x] /; FreeQ[{a, b, n, p}, x] && !IGtQ[p

, 0] && !IntegerQ[1/n] && !ILtQ[Simplify[1/n + p], 0] && (IntegerQ[p] || GtQ[a, 0])

Rule 364

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_.))^(p_), x_Symbol] := Simp[(a^p*(c*x)^(m + 1)*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, -(b*x^n)/a])/((c*(m + 1)), x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 1793

Int[(Pq_)/((a_) + (b_.)*(x_)^(n_.) + (c_.)*(x_)^(n2_.)), x_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Dist[(2*c)/q, Int[Pq/(b - q + 2*c*x^n), x], x] - Dist[(2*c)/q, Int[Pq/(b + q + 2*c*x^n), x], x]] /; FreeQ[{a, b, c, n}, x] && EqQ[n2, 2*n] && PolyQ[Pq, x] && NeQ[b^2 - 4*a*c, 0]

Rule 1893

Int[(Pq_)*((a_) + (b_.)*(x_)^(n_.))^(p_.), x_Symbol] := Int[ExpandIntegrand[Pq*(a + b*x^n)^p, x], x] /; FreeQ[{a, b, n, p}, x] && (PolyQ[Pq, x] || PolyQ[Pq, x^n])

Rubi steps

$$\begin{aligned} \int \frac{d + ex + fx^2}{a + bx^n + cx^{2n}} dx &= \frac{(2c) \int \frac{d+ex+fx^2}{b-\sqrt{b^2-4ac}+2cx^n} dx}{\sqrt{b^2-4ac}} - \frac{(2c) \int \frac{d+ex+fx^2}{b+\sqrt{b^2-4ac}+2cx^n} dx}{\sqrt{b^2-4ac}} \\ &= \frac{(2c) \int \left(-\frac{d}{-b+\sqrt{b^2-4ac}-2cx^n} - \frac{ex}{-b+\sqrt{b^2-4ac}-2cx^n} - \frac{fx^2}{-b+\sqrt{b^2-4ac}-2cx^n} \right) dx}{\sqrt{b^2-4ac}} - \frac{(2c) \int \left(\frac{d}{b+\sqrt{b^2-4ac}+2cx^n} + \frac{ex}{b+\sqrt{b^2-4ac}+2cx^n} + \frac{fx^2}{b+\sqrt{b^2-4ac}+2cx^n} \right) dx}{\sqrt{b^2-4ac}} \\ &= -\frac{(2cd) \int \frac{1}{-b+\sqrt{b^2-4ac}-2cx^n} dx}{\sqrt{b^2-4ac}} - \frac{(2cd) \int \frac{1}{b+\sqrt{b^2-4ac}+2cx^n} dx}{\sqrt{b^2-4ac}} - \frac{(2ce) \int \frac{x}{-b+\sqrt{b^2-4ac}-2cx^n} dx}{\sqrt{b^2-4ac}} \\ &= -\frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{b^2-4ac-b\sqrt{b^2-4ac}} - \frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b^2-4ac+b\sqrt{b^2-4ac}} - \frac{cex^2 {}_2F_1\left(1, \frac{2}{n}; 1 + \frac{2}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{b^2-4ac} \end{aligned}$$

Mathematica [B] time = 1.13, size = 834, normalized size = 2.06

$$x \left(2f \left(\left(-b^2 - \sqrt{b^2 - 4ac} b + 4ac \right) \left(1 - \left(\frac{x^n}{x^n - \frac{\sqrt{b^2 - 4ac} - b}{2c}} \right)^{-3/n} {}_2F_1 \left(-\frac{3}{n}, -\frac{3}{n}; \frac{n-3}{n}; \frac{b - \sqrt{b^2 - 4ac}}{2cx^n + b - \sqrt{b^2 - 4ac}} \right) \right) + \left(-b^2 + \sqrt{b^2 - 4ac} b \right) \right)$$

Antiderivative was successfully verified.

[In] Integrate[(d + e*x + f*x^2)/(a + b*x^n + c*x^(2*n)), x]

[Out] (x*(2*f*x^2*((-b^2 + 4*a*c - b*Sqrt[b^2 - 4*a*c]))*(1 - Hypergeometric2F1[-3/n, -3/n, (-3 + n)/n, (b - Sqrt[b^2 - 4*a*c])/(b - Sqrt[b^2 - 4*a*c] + 2*c*x^n)]/(x^n/(-1/2*(-b + Sqrt[b^2 - 4*a*c])/c + x^n))^(3/n)) + (-b^2 + 4*a*c + b*Sqrt[b^2 - 4*a*c]))*(1 - Hypergeometric2F1[-3/n, -3/n, (-3 + n)/n, (b + Sqrt[b^2 - 4*a*c])/(b + Sqrt[b^2 - 4*a*c] + 2*c*x^n)]/(8^n^(-1)*((c*x^n)/(b + Sqrt[b^2 - 4*a*c] + 2*c*x^n))^(3/n)))) + 3*e*x*((-b^2 + 4*a*c - b*Sqrt[b^2 - 4*a*c]))*(1 - Hypergeometric2F1[-2/n, -2/n, (-2 + n)/n, (b - Sqrt[b^2 - 4*a*c])/(b - Sqrt[b^2 - 4*a*c] + 2*c*x^n)]/(x^n/(-1/2*(-b + Sqrt[b^2 - 4*a*c])/c + x^n))^(2/n)) + (-b^2 + 4*a*c + b*Sqrt[b^2 - 4*a*c]))*(1 - Hypergeometric2F1[-2/n, -2/n, (-2 + n)/n, (b + Sqrt[b^2 - 4*a*c])/(b + Sqrt[b^2 - 4*a*c] + 2*c*x^n)]/(4^n^(-1)*((c*x^n)/(b + Sqrt[b^2 - 4*a*c] + 2*c*x^n))^(2/n)))) + 6*d*((-b^2 + 4*a*c - b*Sqrt[b^2 - 4*a*c]))*(1 - Hypergeometric2F1[-n^(-1), -n^(-1), (-1 + n)/n, (b - Sqrt[b^2 - 4*a*c])/(b - Sqrt[b^2 - 4*a*c] + 2*c*x^n)]/(x^n/(-1/2*(-b + Sqrt[b^2 - 4*a*c])/c + x^n))^(n^(-1))) - (Sqrt[b^2 - 4*a*c]*(-b + Sqrt[b^2 - 4*a*c]))*(2^n^(-1)*((c*x^n)/(b + Sqrt[b^2 - 4*a*c] + 2*c*x^n))^(n^(-1))) - Hypergeometric2F1[-n^(-1), -n^(-1), (-1 + n)/n, (b + Sqrt[b^2 - 4*a*c])/(b + Sqrt[b^2 - 4*a*c] + 2*c*x^n)]/(2^n^(-1)*((c*x^n)/(b + Sqrt[b^2 - 4*a*c] + 2*c*x^n))^(n^(-1)))))/(12*a*(-b^2 + 4*a*c))

fricas [F] time = 0.81, size = 0, normalized size = 0.00

$$\text{integral} \left(\frac{fx^2 + ex + d}{cx^{2n} + bx^n + a}, x \right)$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((f*x^2+e*x+d)/(a+b*x^n+c*x^(2*n)), x, algorithm="fricas")

[Out] integral((f*x^2 + e*x + d)/(c*x^(2*n) + b*x^n + a), x)

giac [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{fx^2 + ex + d}{cx^{2n} + bx^n + a} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((f*x^2+e*x+d)/(a+b*x^n+c*x^(2*n)),x, algorithm="giac")

[Out] integrate((f*x^2 + e*x + d)/(c*x^(2*n) + b*x^n + a), x)

maple [F] time = 0.04, size = 0, normalized size = 0.00

$$\int \frac{f x^2 + e x + d}{b x^n + c x^{2n} + a} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((f*x^2+e*x+d)/(b*x^n+c*x^(2*n)+a),x)

[Out] int((f*x^2+e*x+d)/(b*x^n+c*x^(2*n)+a),x)

maxima [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{f x^2 + e x + d}{c x^{2n} + b x^n + a} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((f*x^2+e*x+d)/(a+b*x^n+c*x^(2*n)),x, algorithm="maxima")

[Out] integrate((f*x^2 + e*x + d)/(c*x^(2*n) + b*x^n + a), x)

mupad [F] time = 0.00, size = -1, normalized size = -0.00

$$\int \frac{f x^2 + e x + d}{a + b x^n + c x^{2n}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((d + e*x + f*x^2)/(a + b*x^n + c*x^(2*n)),x)

[Out] int((d + e*x + f*x^2)/(a + b*x^n + c*x^(2*n)), x)

sympy [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{d + e x + f x^2}{a + b x^n + c x^{2n}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((f*x**2+e*x+d)/(a+b*x**n+c*x**(2*n)),x)

[Out] Integral((d + e*x + f*x**2)/(a + b*x**n + c*x**(2*n)), x)

$$3.5 \quad \int \frac{d+ex+fx^2+gx^3}{a+bx^n+cx^{2n}} dx$$

Optimal. Leaf size=545

$$\frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{-b\sqrt{b^2-4ac} - 4ac + b^2} - \frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b\sqrt{b^2-4ac} - 4ac + b^2} - \frac{cex^2 {}_2F_1\left(1, \frac{2}{n}; \frac{n+2}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{-b\sqrt{b^2-4ac} - 4ac + b^2} - \frac{cex^2 {}_2F_1\left(1, \frac{2}{n}; \frac{n+2}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b\sqrt{b^2-4ac} - 4ac + b^2}$$

[Out] $-2*c*d*x*hypergeom([1, 1/n], [1+1/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-c*e*x^2*hypergeom([1, 2/n], [(2+n)/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-2/3*c*f*x^3*hypergeom([1, 3/n], [(3+n)/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-1/2*c*g*x^4*hypergeom([1, 4/n], [(4+n)/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-2*c*d*x*hypergeom([1, 1/n], [1+1/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))-c*e*x^2*hypergeom([1, 2/n], [(2+n)/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))-2/3*c*f*x^3*hypergeom([1, 3/n], [(3+n)/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))-1/2*c*g*x^4*hypergeom([1, 4/n], [(4+n)/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))$

Rubi [A] time = 0.35, antiderivative size = 545, normalized size of antiderivative = 1.00, number of steps used = 13, number of rules used = 4, integrand size = 32, $\frac{\text{number of rules}}{\text{integrand size}} = 0.125$, Rules used = {1793, 1893, 245, 364}

$$\frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{-b\sqrt{b^2-4ac} - 4ac + b^2} - \frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b\sqrt{b^2-4ac} - 4ac + b^2} - \frac{cex^2 {}_2F_1\left(1, \frac{2}{n}; \frac{n+2}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{-b\sqrt{b^2-4ac} - 4ac + b^2} - \frac{cex^2 {}_2F_1\left(1, \frac{2}{n}; \frac{n+2}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b\sqrt{b^2-4ac} - 4ac + b^2}$$

Antiderivative was successfully verified.

[In] Int[(d + e*x + f*x^2 + g*x^3)/(a + b*x^n + c*x^(2*n)),x]

[Out] $(-2*c*d*x*Hypergeometric2F1[1, n^(-1), 1 + n^(-1), (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])])/(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c]) - (2*c*d*x*Hypergeometric2F1[1, n^(-1), 1 + n^(-1), (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])])/(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c]) - (c*e*x^2*Hypergeometric2F1[1, 2/n, (2 + n)/n, (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])])/(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c]) - (c*e*x^2*Hypergeometric2F1[1, 2/n, (2 + n)/n, (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])])/(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c]) - (2*c*f*x^3*Hypergeometric2F1[1, 3/n, (3 + n)/n, (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])])/(3*(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c])) - (2*c*f*x^3*Hypergeometric2F1[1, 3/n, (3 + n)/n, (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])])/(3*(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c])) - (c$

$$g*x^4*Hypergeometric2F1[1, 4/n, (4 + n)/n, (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])]/(2*(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c])) - (c*g*x^4*Hypergeometric2F1[1, 4/n, (4 + n)/n, (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])]/(2*(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c]))$$

Rule 245

$$\text{Int}[(a_) + (b_)*(x_)^{(n_)}]^{(p_)}, x_Symbol] \rightarrow \text{Simp}[a^p*x*Hypergeometric2F1[-p, 1/n, 1/n + 1, -((b*x^n)/a)], x] /; \text{FreeQ}\{a, b, n, p\}, x \ \&\& \ !\text{IGtQ}[p, 0] \ \&\& \ !\text{IntegerQ}[1/n] \ \&\& \ !\text{ILtQ}[\text{Simplify}[1/n + p], 0] \ \&\& \ (\text{IntegerQ}[p] \ || \ \text{GtQ}[a, 0])$$

Rule 364

$$\text{Int}[(c_)*(x_)^{(m_)}*((a_) + (b_)*(x_)^{(n_)}]^{(p_)}, x_Symbol] \rightarrow \text{Simp}[(a^p*(c*x)^{(m+1)}*Hypergeometric2F1[-p, (m+1)/n, (m+1)/n + 1, -((b*x^n)/a)])/((c*(m+1)), x] /; \text{FreeQ}\{a, b, c, m, n, p\}, x \ \&\& \ !\text{IGtQ}[p, 0] \ \&\& \ (\text{ILtQ}[p, 0] \ || \ \text{GtQ}[a, 0])$$

Rule 1793

$$\text{Int}[(Pq_)/((a_) + (b_)*(x_)^{(n_)} + (c_)*(x_)^{(n2_)}), x_Symbol] \rightarrow \text{With}\{q = \text{Rt}[b^2 - 4*a*c, 2]\}, \text{Dist}[(2*c)/q, \text{Int}[Pq/(b - q + 2*c*x^n), x], x] - \text{Dist}[(2*c)/q, \text{Int}[Pq/(b + q + 2*c*x^n), x], x] /; \text{FreeQ}\{a, b, c, n\}, x \ \&\& \ \text{EqQ}[n2, 2*n] \ \&\& \ \text{PolyQ}[Pq, x] \ \&\& \ \text{NeQ}[b^2 - 4*a*c, 0]$$

Rule 1893

$$\text{Int}[(Pq_)*((a_) + (b_)*(x_)^{(n_)}]^{(p_)}, x_Symbol] \rightarrow \text{Int}[\text{ExpandIntegrand}[Pq*(a + b*x^n)^p, x], x] /; \text{FreeQ}\{a, b, n, p\}, x \ \&\& \ (\text{PolyQ}[Pq, x] \ || \ \text{PolyQ}[Pq, x^n])$$

Rubi steps

$$\begin{aligned}
\int \frac{d + ex + fx^2 + gx^3}{a + bx^n + cx^{2n}} dx &= \frac{(2c) \int \frac{d+ex+fx^2+gx^3}{b-\sqrt{b^2-4ac}+2cx^n} dx}{\sqrt{b^2-4ac}} - \frac{(2c) \int \frac{d+ex+fx^2+gx^3}{b+\sqrt{b^2-4ac}+2cx^n} dx}{\sqrt{b^2-4ac}} \\
&= \frac{(2c) \int \left(-\frac{d}{-b+\sqrt{b^2-4ac}-2cx^n} - \frac{ex}{-b+\sqrt{b^2-4ac}-2cx^n} - \frac{fx^2}{-b+\sqrt{b^2-4ac}-2cx^n} - \frac{gx^3}{-b+\sqrt{b^2-4ac}-2cx^n} \right) dx}{\sqrt{b^2-4ac}} \\
&= -\frac{(2cd) \int \frac{1}{-b+\sqrt{b^2-4ac}-2cx^n} dx}{\sqrt{b^2-4ac}} - \frac{(2cd) \int \frac{1}{b+\sqrt{b^2-4ac}+2cx^n} dx}{\sqrt{b^2-4ac}} - \frac{(2ce) \int \frac{x}{-b+\sqrt{b^2-4ac}-2cx^n} dx}{\sqrt{b^2-4ac}} \\
&= -\frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{b^2-4ac-b\sqrt{b^2-4ac}} - \frac{2cdx {}_2F_1\left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{b^2-4ac+b\sqrt{b^2-4ac}} - \frac{cex^2 {}_2F_1\left(\dots\right)}{b^2-4ac}
\end{aligned}$$

Mathematica [B] time = 1.58, size = 1093, normalized size = 2.01

$$x \left(3g \left((-b^2 - \sqrt{b^2 - 4ac} b + 4ac) \left(1 - \left(\frac{x^n}{x^n - \frac{\sqrt{b^2 - 4ac} - b}{2c}} \right)^{-4/n} {}_2F_1 \left(-\frac{4}{n}, -\frac{4}{n}; \frac{n-4}{n}; \frac{b - \sqrt{b^2 - 4ac}}{2cx^n + b - \sqrt{b^2 - 4ac}} \right) \right) + (-b^2 + \sqrt{b^2 - 4ac} b \right. \right.$$

Antiderivative was successfully verified.

[In] Integrate[(d + e*x + f*x^2 + g*x^3)/(a + b*x^n + c*x^(2*n)),x]

[Out] (x*(3*g*x^3*((-b^2 + 4*a*c - b*Sqrt[b^2 - 4*a*c]))*(1 - Hypergeometric2F1[-4/n, -4/n, (-4 + n)/n, (b - Sqrt[b^2 - 4*a*c])/(b - Sqrt[b^2 - 4*a*c] + 2*c*x^n)]/(x^n/(-1/2*(-b + Sqrt[b^2 - 4*a*c])/c + x^n))^(4/n)) + (-b^2 + 4*a*c + b*Sqrt[b^2 - 4*a*c]))*(1 - Hypergeometric2F1[-4/n, -4/n, (-4 + n)/n, (b + Sqrt[b^2 - 4*a*c])/(b + Sqrt[b^2 - 4*a*c] + 2*c*x^n)]/(2^(4/n)*((c*x^n)/(b + Sqrt[b^2 - 4*a*c] + 2*c*x^n))^(4/n)))) + 4*f*x^2*((-b^2 + 4*a*c - b*Sqrt[b^2 - 4*a*c]))*(1 - Hypergeometric2F1[-3/n, -3/n, (-3 + n)/n, (b - Sqrt[b^2 - 4*a*c])/(b - Sqrt[b^2 - 4*a*c] + 2*c*x^n)]/(x^n/(-1/2*(-b + Sqrt[b^2 - 4*a*c])/c + x^n))^(3/n)) + (-b^2 + 4*a*c + b*Sqrt[b^2 - 4*a*c]))*(1 - Hypergeometric2F1[-3/n, -3/n, (-3 + n)/n, (b + Sqrt[b^2 - 4*a*c])/(b + Sqrt[b^2 - 4*a*c] + 2*c*x^n)]/(8^n^(-1)*((c*x^n)/(b + Sqrt[b^2 - 4*a*c] + 2*c*x^n))^(3/n)))) + 6*e*x*((-b^2 + 4*a*c - b*Sqrt[b^2 - 4*a*c]))*(1 - Hypergeometric2F1[-2/n, -2/n, (-2 + n)/n, (b - Sqrt[b^2 - 4*a*c])/(b - Sqrt[b^2 - 4*a*c] + 2*c*x^n)]/(x^n/(-1/2*(-b + Sqrt[b^2 - 4*a*c])/c + x^n))^(2/n)) + (-b^2 + 4*a*c + b*Sqrt[b^2 - 4*a*c]))*(1 - Hypergeometric2F1[-2/n, -2/n, (-2 + n)/n, (b + Sqrt[b^2 - 4*a*c])/(b + Sqrt[b^2 - 4*a*c] + 2*c*x^n)]/(4^n^(-1)*((c*x^n)/

$(b + \sqrt{b^2 - 4ac} + 2cx^n)^{2/n} + 12d \cdot ((-b^2 + 4ac - b\sqrt{b^2 - 4ac}) \cdot (1 - \text{Hypergeometric2F1}[-n^{-1}, -n^{-1}, (-1+n)/n, (b - \sqrt{b^2 - 4ac})/(b - \sqrt{b^2 - 4ac} + 2cx^n)]/(x^n/(-1/2(-b + \sqrt{b^2 - 4ac}))/c + x^n))^{-1}) - (\sqrt{b^2 - 4ac} \cdot (-b + \sqrt{b^2 - 4ac})) \cdot (2^n)^{-1} \cdot ((cx^n)/(b + \sqrt{b^2 - 4ac} + 2cx^n))^{-1} - \text{Hypergeometric2F1}[-n^{-1}, -n^{-1}, (-1+n)/n, (b + \sqrt{b^2 - 4ac})/(b + \sqrt{b^2 - 4ac} + 2cx^n)])/(2^n)^{-1} \cdot ((cx^n)/(b + \sqrt{b^2 - 4ac} + 2cx^n))^{-1})))/(24a \cdot (-b^2 + 4ac))$

fricas [F] time = 0.87, size = 0, normalized size = 0.00

$$\text{integral}\left(\frac{gx^3 + fx^2 + ex + d}{cx^{2n} + bx^n + a}, x\right)$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((g*x^3+f*x^2+e*x+d)/(a+b*x^n+c*x^(2*n)),x, algorithm="fricas")

[Out] integral((g*x^3 + f*x^2 + e*x + d)/(c*x^(2*n) + b*x^n + a), x)

giac [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{gx^3 + fx^2 + ex + d}{cx^{2n} + bx^n + a} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((g*x^3+f*x^2+e*x+d)/(a+b*x^n+c*x^(2*n)),x, algorithm="giac")

[Out] integrate((g*x^3 + f*x^2 + e*x + d)/(c*x^(2*n) + b*x^n + a), x)

maple [F] time = 0.04, size = 0, normalized size = 0.00

$$\int \frac{gx^3 + fx^2 + ex + d}{bx^n + cx^{2n} + a} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((g*x^3+f*x^2+e*x+d)/(b*x^n+c*x^(2*n)+a),x)

[Out] int((g*x^3+f*x^2+e*x+d)/(b*x^n+c*x^(2*n)+a),x)

maxima [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{gx^3 + fx^2 + ex + d}{cx^{2n} + bx^n + a} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((g*x^3+f*x^2+e*x+d)/(a+b*x^n+c*x^(2*n)),x, algorithm="maxima")

[Out] integrate((g*x^3 + f*x^2 + e*x + d)/(c*x^(2*n) + b*x^n + a), x)

mupad [F] time = 0.00, size = -1, normalized size = -0.00

$$\int \frac{g x^3 + f x^2 + e x + d}{a + b x^n + c x^{2n}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((d + e*x + f*x^2 + g*x^3)/(a + b*x^n + c*x^(2*n)),x)

[Out] int((d + e*x + f*x^2 + g*x^3)/(a + b*x^n + c*x^(2*n)), x)

sympy [F(-1)] time = 0.00, size = 0, normalized size = 0.00

Timed out

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((g*x**3+f*x**2+e*x+d)/(a+b*x**n+c*x**(2*n)),x)

[Out] Timed out

$$3.6 \quad \int \frac{1}{(a+bx^n+cx^{2n})^2} dx$$

Optimal. Leaf size=283

$$\frac{cx \left(-b(1-n)\sqrt{b^2-4ac} + 4ac(1-2n) - (b^2(1-n)) \right) {}_2F_1 \left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}} \right) - cx \left(b(1-n)\sqrt{b^2-4ac} + 4ac(1-2n) - (b^2(1-n)) \right) {}_2F_1 \left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}} \right)}{an(b^2-4ac) \left(-b\sqrt{b^2-4ac} - 4ac + b^2 \right) - an(b^2-4ac) \left(-b\sqrt{b^2-4ac} + 4ac + b^2 \right)}$$

[Out] $x*(b^2-2*a*c+b*c*x^n)/a/(-4*a*c+b^2)/n/(a+b*x^n+c*x^(2*n))-c*x*hypergeom([1, 1/n], [1+1/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))*(4*a*c*(1-2*n)-b^2*(1-n)-b*(1-n)*(-4*a*c+b^2)^(1/2))/a/(-4*a*c+b^2)/n/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-c*x*hypergeom([1, 1/n], [1+1/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))*(4*a*c*(1-2*n)-b^2*(1-n)+b*(1-n)*(-4*a*c+b^2)^(1/2))/a/(-4*a*c+b^2)/n/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))$

Rubi [A] time = 0.39, antiderivative size = 283, normalized size of antiderivative = 1.00, number of steps used = 4, number of rules used = 3, integrand size = 16, $\frac{\text{number of rules}}{\text{integrand size}} = 0.188$, Rules used = {1345, 1422, 245}

$$\frac{cx \left(-b(1-n)\sqrt{b^2-4ac} + 4ac(1-2n) + b^2(-1-n) \right) {}_2F_1 \left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b-\sqrt{b^2-4ac}} \right) - cx \left(b(1-n)\sqrt{b^2-4ac} + 4ac(1-2n) + b^2(-1-n) \right) {}_2F_1 \left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b+\sqrt{b^2-4ac}} \right)}{an(b^2-4ac) \left(-b\sqrt{b^2-4ac} - 4ac + b^2 \right) - an(b^2-4ac) \left(-b\sqrt{b^2-4ac} + 4ac + b^2 \right)}$$

Antiderivative was successfully verified.

[In] Int[(a + b*x^n + c*x^(2*n))^(-2), x]

[Out] $(x*(b^2-2*a*c+b*c*x^n)/(a*(b^2-4*a*c)*n*(a+b*x^n+c*x^(2*n)))) - (c*(4*a*c*(1-2*n)-b^2*(1-n)-b*Sqrt[b^2-4*a*c]*(1-n))*x*Hypergeometric2F1[1, n^(-1), 1+n^(-1), (-2*c*x^n)/(b-Sqrt[b^2-4*a*c])]/(a*(b^2-4*a*c)*(b^2-4*a*c-b*Sqrt[b^2-4*a*c])*n) - (c*(4*a*c*(1-2*n)-b^2*(1-n)+b*Sqrt[b^2-4*a*c]*(1-n))*x*Hypergeometric2F1[1, n^(-1), 1+n^(-1), (-2*c*x^n)/(b+Sqrt[b^2-4*a*c])]/(a*(b^2-4*a*c)*(b^2-4*a*c+b*Sqrt[b^2-4*a*c])*n)$

Rule 245

Int[((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] :> Simp[a^p*x*Hypergeometric2F1[-p, 1/n, 1/n + 1, -((b*x^n)/a)], x] /; FreeQ[{a, b, n, p}, x] && !IGtQ[p, 0] && !IntegerQ[1/n] && !ILtQ[Simplify[1/n + p], 0] && (IntegerQ[p] || GtQ[a, 0])

Rule 1345

```
Int[((a_) + (c_.)*(x_)^(n2_.) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := -Simp[(
x*(b^2 - 2*a*c + b*c*x^n)*(a + b*x^n + c*x^(2*n))^(p + 1))/(a*n*(p + 1)*(b^
2 - 4*a*c)), x] + Dist[1/(a*n*(p + 1)*(b^2 - 4*a*c)), Int[(b^2 - 2*a*c + n*
(p + 1)*(b^2 - 4*a*c) + b*c*(n*(2*p + 3) + 1)*x^n)*(a + b*x^n + c*x^(2*n))^(
p + 1), x], x] /; FreeQ[{a, b, c, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*
c, 0] && ILtQ[p, -1]
```

Rule 1422

```
Int[((d_) + (e_.)*(x_)^(n_))/((a_) + (b_.)*(x_)^(n_) + (c_.)*(x_)^(n2_)), x
_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Dist[e/2 + (2*c*d - b*e)/(2*q),
Int[1/(b/2 - q/2 + c*x^n), x], x] + Dist[e/2 - (2*c*d - b*e)/(2*q), Int[1/(
b/2 + q/2 + c*x^n), x], x]] /; FreeQ[{a, b, c, d, e, n}, x] && EqQ[n2, 2*n]
&& NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && (PosQ[b^2 - 4*a
*c] || !IGtQ[n/2, 0])
```

Rubi steps

$$\begin{aligned} \int \frac{1}{(a + bx^n + cx^{2n})^2} dx &= \frac{x(b^2 - 2ac + bcx^n)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} - \frac{\int \frac{b^2 - 2ac - (b^2 - 4ac)n + bc(1-n)x^n}{a + bx^n + cx^{2n}} dx}{a(b^2 - 4ac)n} \\ &= \frac{x(b^2 - 2ac + bcx^n)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} + \frac{\left(c(4ac(1-2n) - b^2(1-n) - b\sqrt{b^2 - 4ac}(1-n))\right) \int}{2a(b^2 - 4ac)^{3/2}n} \\ &= \frac{x(b^2 - 2ac + bcx^n)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} + \frac{c(4ac(1-2n) - b^2(1-n) - b\sqrt{b^2 - 4ac}(1-n)) x {}_2F_1}{a(b^2 - 4ac)^{3/2}(b - \sqrt{b^2 - 4ac})} \end{aligned}$$

Mathematica [A] time = 3.53, size = 456, normalized size = 1.61

$$x \left(\frac{4a^2cn + a(-b^2n + bc(4n-3)x^n + 2c^2(2n-1)x^{2n}) - b^2(n-1)x^n(b+cx^n)}{a+x^n(b+cx^n)} + \frac{ac2^{-1/n}(b(n-1)\sqrt{b^2-4ac} + 4ac(2n-1) - (b^2(n-1))) \left(\frac{cx^n}{\sqrt{b^2-4ac} + b + 2cx^n}\right)^{-1/n}}{\sqrt{b^2-4ac}(\sqrt{b^2-4ac} + b)} \right) {}_2F_1$$

Antiderivative was successfully verified.

```
[In] Integrate[(a + b*x^n + c*x^(2*n))^(-2), x]
```

```
[Out] -((x*((4*a^2*c*n - b^2*(-1 + n))*x^n*(b + c*x^n) + a*(-(b^2*n) + b*c*(-3 + 4
*n))*x^n + 2*c^2*(-1 + 2*n)*x^(2*n)))/(a + x^n*(b + c*x^n)) + (a*c*(4*a*c*Sq
rt[b^2 - 4*a*c]*(1 - 2*n) + b^3*(-1 + n) - 4*a*b*c*(-1 + n) + b^2*Sqrt[b^2
- 4*a*c]*(-1 + n))*Hypergeometric2F1[-n^(-1), -n^(-1), (-1 + n)/n, (b - Sqr
t[b^2 - 4*a*c])/(b - Sqrt[b^2 - 4*a*c] + 2*c*x^n)]/(2^n^(-1)*Sqrt[b^2 - 4*
a*c]*(-b^2 + 4*a*c + b*Sqrt[b^2 - 4*a*c])*((c*x^n)/(b - Sqrt[b^2 - 4*a*c] +
2*c*x^n))^n^(-1)) + (a*c*(-(b^2*(-1 + n)) + b*Sqrt[b^2 - 4*a*c]*(-1 + n) +
4*a*c*(-1 + 2*n))*Hypergeometric2F1[-n^(-1), -n^(-1), (-1 + n)/n, (b + Sqr
t[b^2 - 4*a*c])/(b + Sqrt[b^2 - 4*a*c] + 2*c*x^n)]/(2^n^(-1)*Sqrt[b^2 - 4*
a*c]*(b + Sqrt[b^2 - 4*a*c])*((c*x^n)/(b + Sqrt[b^2 - 4*a*c] + 2*c*x^n))^n^
(-1))))/(a^2*(b^2 - 4*a*c)*n))
```

fricas [F] time = 0.85, size = 0, normalized size = 0.00

$$\text{integral}\left(\frac{1}{c^2x^{4n} + b^2x^{2n} + 2abx^n + a^2 + 2(bc x^n + ac)x^{2n}}, x\right)$$

Verification of antiderivative is not currently implemented for this CAS.

```
[In] integrate(1/(a+b*x^n+c*x^(2*n))^2,x, algorithm="fricas")
```

```
[Out] integral(1/(c^2*x^(4*n) + b^2*x^(2*n) + 2*a*b*x^n + a^2 + 2*(b*c*x^n + a*c)
*x^(2*n)), x)
```

giac [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{1}{(cx^{2n} + bx^n + a)^2} dx$$

Verification of antiderivative is not currently implemented for this CAS.

```
[In] integrate(1/(a+b*x^n+c*x^(2*n))^2,x, algorithm="giac")
```

```
[Out] integrate((c*x^(2*n) + b*x^n + a)^(-2), x)
```

maple [F] time = 0.07, size = 0, normalized size = 0.00

$$\int \frac{1}{(bx^n + cx^{2n} + a)^2} dx$$

Verification of antiderivative is not currently implemented for this CAS.

```
[In] int(1/(b*x^n+c*x^(2*n)+a)^2,x)
```

```
[Out] int(1/(b*x^n+c*x^(2*n)+a)^2,x)
```

maxima [F] time = 0.00, size = 0, normalized size = 0.00

$$\frac{bcx^n + (b^2 - 2ac)x}{a^2b^{2n} - 4a^3cn + (ab^2cn - 4a^2c^2n)x^{2n} + (ab^3n - 4a^2bcn)x^n} - \int \frac{bc(n-1)x^n - 2ac(2n-1) + b^2(n-1)}{a^2b^{2n} - 4a^3cn + (ab^2cn - 4a^2c^2n)x^{2n} + (ab^3n - 4a^2bcn)x^n} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate(1/(a+b*x^n+c*x^(2*n))^2,x, algorithm="maxima")

[Out] (b*c*x*x^n + (b^2 - 2*a*c)*x)/(a^2*b^2*n - 4*a^3*c*n + (a*b^2*c*n - 4*a^2*c^2*n)*x^(2*n) + (a*b^3*n - 4*a^2*b*c*n)*x^n) - integrate(-(b*c*(n - 1)*x^n - 2*a*c*(2*n - 1) + b^2*(n - 1))/(a^2*b^2*n - 4*a^3*c*n + (a*b^2*c*n - 4*a^2*c^2*n)*x^(2*n) + (a*b^3*n - 4*a^2*b*c*n)*x^n), x)

mupad [F] time = 0.00, size = -1, normalized size = -0.00

$$\int \frac{1}{(a + bx^n + cx^{2n})^2} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int(1/(a + b*x^n + c*x^(2*n))^2,x)

[Out] int(1/(a + b*x^n + c*x^(2*n))^2, x)

sympy [F(-1)] time = 0.00, size = 0, normalized size = 0.00

Timed out

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate(1/(a+b*x**n+c*x**(2*n))**2,x)

[Out] Timed out

$$3.7 \quad \int \frac{d+ex}{(a+bx^n+cx^{2n})^2} dx$$

Optimal. Leaf size=738

$$\frac{2bc^2e(2-n)x^{n+2} {}_2F_1\left(1, \frac{n+2}{n}; 2\left(1+\frac{1}{n}\right); -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{an(n+2)(b^2-4ac)^{3/2}\left(b-\sqrt{b^2-4ac}\right)} + \frac{2bc^2e(2-n)x^{n+2} {}_2F_1\left(1, \frac{n+2}{n}; 2\left(1+\frac{1}{n}\right); -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{an(n+2)(b^2-4ac)^{3/2}\left(\sqrt{b^2-4ac}+b\right)} - ca$$

[Out] d*x*(b^2-2*a*c+b*c*x^n)/a/(-4*a*c+b^2)/n/(a+b*x^n+c*x^(2*n))+e*x^2*(b^2-2*a*c+b*c*x^n)/a/(-4*a*c+b^2)/n/(a+b*x^n+c*x^(2*n))-2*b*c^2*e*(2-n)*x^(2+n)*hypergeom([1, (2+n)/n], [2+2/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)^(3/2)/n/(2+n)/(b-(-4*a*c+b^2)^(1/2))+2*b*c^2*e*(2-n)*x^(2+n)*hypergeom([1, (2+n)/n], [2+2/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)^(3/2)/n/(2+n)/(b+(-4*a*c+b^2)^(1/2))-c*e*(4*a*c*(1-n)-b^2*(2-n))*x^2*hypergeom([1, 2/n], [(2+n)/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)/n/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-c*e*(4*a*c*(1-n)-b^2*(2-n))*x^2*hypergeom([1, 2/n], [(2+n)/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)/n/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))-c*d*x*hypergeom([1, 1/n], [1+1/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))*(4*a*c*(1-2*n)-b^2*(1-n)-b*(1-n)*(-4*a*c+b^2)^(1/2))/a/(-4*a*c+b^2)/n/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-c*d*x*hypergeom([1, 1/n], [1+1/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))*(4*a*c*(1-2*n)-b^2*(1-n)+b*(1-n)*(-4*a*c+b^2)^(1/2))/a/(-4*a*c+b^2)/n/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))

Rubi [A] time = 1.34, antiderivative size = 738, normalized size of antiderivative = 1.00, number of steps used = 15, number of rules used = 8, integrand size = 22, $\frac{\text{number of rules}}{\text{integrand size}} = 0.364$, Rules used = {1796, 1345, 1422, 245, 1384, 1560, 1383, 364}

$$\frac{2bc^2e(2-n)x^{n+2} {}_2F_1\left(1, \frac{n+2}{n}; 2\left(1+\frac{1}{n}\right); -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right)}{an(n+2)(b^2-4ac)^{3/2}\left(b-\sqrt{b^2-4ac}\right)} + \frac{2bc^2e(2-n)x^{n+2} {}_2F_1\left(1, \frac{n+2}{n}; 2\left(1+\frac{1}{n}\right); -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right)}{an(n+2)(b^2-4ac)^{3/2}\left(\sqrt{b^2-4ac}+b\right)} - ca$$

Antiderivative was successfully verified.

[In] Int[(d + e*x)/(a + b*x^n + c*x^(2*n))^2, x]

[Out] (d*x*(b^2 - 2*a*c + b*c*x^n))/(a*(b^2 - 4*a*c)*n*(a + b*x^n + c*x^(2*n))) + (e*x^2*(b^2 - 2*a*c + b*c*x^n))/(a*(b^2 - 4*a*c)*n*(a + b*x^n + c*x^(2*n))) - (c*d*(4*a*c*(1 - 2*n) - b^2*(1 - n) - b*Sqrt[b^2 - 4*a*c]*(1 - n))*x*Hypergeometric2F1[1, n^(-1), 1 + n^(-1), (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])]/(a*(b^2 - 4*a*c)*(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c])*n) - (c*d*(4*a*c*(1 - 2*n) - b^2*(1 - n) + b*Sqrt[b^2 - 4*a*c]*(1 - n))*x*Hypergeometric2F1[1, n^(-1), 1 + n^(-1), (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])]/(a*(b^2 - 4*a*c)*(b

$$\begin{aligned} &^2 - 4ac + b\sqrt{b^2 - 4ac})^n) - (c e^{(4ac(1-n) - b^2(2-n))} x \\ &^2 \text{Hypergeometric2F1}[1, 2/n, (2+n)/n, (-2cx^n)/(b - \sqrt{b^2 - 4ac})] \\ &)/(a(b^2 - 4ac)(b^2 - 4ac - b\sqrt{b^2 - 4ac})^n) - (c e^{(4ac(1- \\ &n) - b^2(2-n))} x^2 \text{Hypergeometric2F1}[1, 2/n, (2+n)/n, (-2cx^n)/(b \\ &+ \sqrt{b^2 - 4ac})])/(a(b^2 - 4ac)(b^2 - 4ac + b\sqrt{b^2 - 4ac}) \\ &^n) - (2b^2 c^2 e^{(2-n)x^{2+n}} \text{Hypergeometric2F1}[1, (2+n)/n, 2(1+n \\ &^{-1}), (-2cx^n)/(b - \sqrt{b^2 - 4ac})])/(a(b^2 - 4ac)^{3/2}(b - \sqrt{ \\ &b^2 - 4ac})^n(2+n)) + (2b^2 c^2 e^{(2-n)x^{2+n}} \text{Hypergeometric2F1} \\ &[1, (2+n)/n, 2(1+n^{-1}), (-2cx^n)/(b + \sqrt{b^2 - 4ac})])/(a(b^2 \\ &- 4ac)^{3/2}(b + \sqrt{b^2 - 4ac})^n(2+n)) \end{aligned}$$

Rule 245

```
Int[((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*x*Hypergeometric2F
1[-p, 1/n, 1/n + 1, -(b*x^n)/a], x] /; FreeQ[{a, b, n, p}, x] && !IGtQ[p
, 0] && !IntegerQ[1/n] && !ILtQ[Simplify[1/n + p], 0] && (IntegerQ[p] ||
GtQ[a, 0])
```

Rule 364

```
Int[((c_.)*(x_)^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[(a^
p*(c*x)^(m + 1)*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, -(b*x^n)/a
])/ (c*(m + 1)), x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILt
Q[p, 0] || GtQ[a, 0])
```

Rule 1345

```
Int[((a_) + (c_.)*(x_)^(n2_.) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := -Simp[(
x*(b^2 - 2ac + bc*x^n)*(a + b*x^n + c*x^(2n))^(p + 1))/(a*n*(p + 1)*(b^
2 - 4ac)), x] + Dist[1/(a*n*(p + 1)*(b^2 - 4ac)), Int[(b^2 - 2ac + n*
(p + 1)*(b^2 - 4ac) + bc*(n*(2p + 3) + 1)*x^n)*(a + b*x^n + c*x^(2n))^(
p + 1), x], x] /; FreeQ[{a, b, c, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4ac
, 0] && ILtQ[p, -1]
```

Rule 1383

```
Int[((d_.)*(x_)^(m_.)/((a_) + (c_.)*(x_)^(n2_.) + (b_.)*(x_)^(n_)), x_Symb
ol] := With[{q = Rt[b^2 - 4ac, 2]}, Dist[(2c)/q, Int[(d*x)^m/(b - q + 2*
c*x^n), x], x] - Dist[(2c)/q, Int[(d*x)^m/(b + q + 2*c*x^n), x], x]] /; Fr
eeQ[{a, b, c, d, m, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4ac, 0]
```

Rule 1384

```
Int[((d_.)*(x_)^(m_.)*((a_) + (c_.)*(x_)^(n2_.) + (b_.)*(x_)^(n_))^(p_), x
_Symbol] := -Simp[((d*x)^(m + 1)*(b^2 - 2ac + bc*x^n)*(a + b*x^n + c*x^(
2n))^(p + 1))/(a*d*n*(p + 1)*(b^2 - 4ac)), x] + Dist[1/(a*n*(p + 1)*(b^2
```



```

- 4*a*c)), Int[(d*x)^m*(a + b*x^n + c*x^(2*n))^(p + 1)*Simp[b^2*(n*(p + 1)
+ m + 1) - 2*a*c*(m + 2*n*(p + 1) + 1) + b*c*(2*n*p + 3*n + m + 1)*x^n, x]
, x], x] /; FreeQ[{a, b, c, d, m, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c
, 0] && ILtQ[p + 1, 0]

```

Rule 1422

```

Int[((d_) + (e_)*(x_)^(n_))/((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_)), x
_Symbol] :=> With[{q = Rt[b^2 - 4*a*c, 2]}, Dist[e/2 + (2*c*d - b*e)/(2*q),
Int[1/(b/2 - q/2 + c*x^n), x], x] + Dist[e/2 - (2*c*d - b*e)/(2*q), Int[1/(
b/2 + q/2 + c*x^n), x], x]] /; FreeQ[{a, b, c, d, e, n}, x] && EqQ[n2, 2*n]
&& NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && (PosQ[b^2 - 4*a
*c] || !IGtQ[n/2, 0])

```

Rule 1560

```

Int[((f_)*(x_)^(m_))*((a_) + (c_)*(x_)^(n2_) + (b_)*(x_)^(n_))^(p_)*
(d_) + (e_)*(x_)^(n_))^(q_), x_Symbol] :=> Int[ExpandIntegrand[(f*x)^m*(d
+ e*x^n)^q*(a + b*x^n + c*x^(2*n))^p, x], x] /; FreeQ[{a, b, c, d, e, f, m,
n, p, q}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && (IGtQ[p, 0] || IGtQ
[q, 0])

```

Rule 1796

```

Int[(Pq_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] :=>
Int[ExpandIntegrand[Pq*(a + b*x^n + c*x^(2*n))^p, x], x] /; FreeQ[{a, b, c,
n}, x] && EqQ[n2, 2*n] && PolyQ[Pq, x] && ILtQ[p, -1]

```

Rubi steps

$$\begin{aligned}
\int \frac{d + ex}{(a + bx^n + cx^{2n})^2} dx &= \int \left(\frac{d}{(a + bx^n + cx^{2n})^2} + \frac{ex}{(a + bx^n + cx^{2n})^2} \right) dx \\
&= d \int \frac{1}{(a + bx^n + cx^{2n})^2} dx + e \int \frac{x}{(a + bx^n + cx^{2n})^2} dx \\
&= \frac{dx (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{ex^2 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} - \frac{d \int \frac{b^2 - 2ac - (b^2 - 4ac)n}{a + bx^n + cx^{2n}}}{a (b^2 - 4ac) n} \\
&= \frac{dx (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{ex^2 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} - \frac{e \int \left(\frac{b^2 \left(1 - \frac{4ac(-1+n)}{b^2(-2+n)} \right)}{a + bx^n + cx^{2n}} \right)}{a (b^2 - 4ac) n} \\
&= \frac{dx (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{ex^2 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{cd (4ac(1 - 2n) - \dots)}{a (b^2 - 4ac) n} \\
&= \frac{dx (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{ex^2 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{cd (4ac(1 - 2n) - \dots)}{a (b^2 - 4ac) n} \\
&= \frac{dx (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{ex^2 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{cd (4ac(1 - 2n) - \dots)}{a (b^2 - 4ac) n}
\end{aligned}$$

Mathematica [B] time = 6.39, size = 4162, normalized size = 5.64

Result too large to show

Antiderivative was successfully verified.

[In] Integrate[(d + e*x)/(a + b*x^n + c*x^(2*n))^2, x]

[Out] (x*(d + e*x)*(-b^2 + 2*a*c - b*c*x^n))/(a*(-b^2 + 4*a*c)*n*(a + b*x^n + c*x^(2*n))) - (b*c*e*x^(2 + n)*(x^n)^(2/n - (2 + n)/n)*(-Hypergeometric2F1[-2/n, -2/n, (-2 + n)/n, -1/2*(-b - Sqrt[b^2 - 4*a*c])/(c*(-1/2*(-b - Sqrt[b^2 - 4*a*c]))/c + x^n))]/(Sqrt[b^2 - 4*a*c]*(x^n/(-1/2*(-b - Sqrt[b^2 - 4*a*c])/c + x^n))^(2/n))) + Hypergeometric2F1[-2/n, -2/n, (-2 + n)/n, -1/2*(-b + Sqrt[b^2 - 4*a*c])/(c*(-1/2*(-b + Sqrt[b^2 - 4*a*c]))/c + x^n)]/(Sqrt[b^2 - 4*a*c]*(x^n/(-1/2*(-b + Sqrt[b^2 - 4*a*c])/c + x^n))^(2/n)))/(2*a*(-b^2 +

giac [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{ex + d}{(cx^{2n} + bx^n + a)^2} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((e*x+d)/(a+b*x^n+c*x^(2*n))^2,x, algorithm="giac")

[Out] integrate((e*x + d)/(c*x^(2*n) + b*x^n + a)^2, x)

maple [F] time = 0.09, size = 0, normalized size = 0.00

$$\int \frac{ex + d}{(bx^n + cx^{2n} + a)^2} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((e*x+d)/(b*x^n+c*x^(2*n)+a)^2,x)

[Out] int((e*x+d)/(b*x^n+c*x^(2*n)+a)^2,x)

maxima [F] time = 0.00, size = 0, normalized size = 0.00

$$\frac{(b^2e - 2ace)x^2 + (bcex^2 + bcdx)x^n + (b^2d - 2acd)x}{a^2b^2n - 4a^3cn + (ab^2cn - 4a^2c^2n)x^{2n} + (ab^3n - 4a^2bcn)x^n} - \int \frac{2acd(2n-1) - b^2d(n-1) - (bce(n-2)x + bcd(n-1))x^n}{a^2b^2n - 4a^3cn + (ab^2cn - 4a^2c^2n)x^{2n} + (ab^3n - 4a^2bcn)x^n} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((e*x+d)/(a+b*x^n+c*x^(2*n))^2,x, algorithm="maxima")

[Out] ((b^2*e - 2*a*c*e)*x^2 + (b*c*e*x^2 + b*c*d*x)*x^n + (b^2*d - 2*a*c*d)*x)/(a^2*b^2*n - 4*a^3*c*n + (a*b^2*c*n - 4*a^2*c^2*n)*x^(2*n) + (a*b^3*n - 4*a^2*b*c*n)*x^n) - integrate((2*a*c*d*(2*n - 1) - b^2*d*(n - 1) - (b*c*e*(n - 2)*x + b*c*d*(n - 1))*x^n + (4*a*c*e*(n - 1) - b^2*e*(n - 2))*x)/(a^2*b^2*n - 4*a^3*c*n + (a*b^2*c*n - 4*a^2*c^2*n)*x^(2*n) + (a*b^3*n - 4*a^2*b*c*n)*x^n), x)

mupad [F] time = 0.00, size = -1, normalized size = -0.00

$$\int \frac{d + ex}{(a + bx^n + cx^{2n})^2} dx$$

Verification of antiderivative is not currently implemented for this CAS.

```
[In] int((d + e*x)/(a + b*x^n + c*x^(2*n))^2,x)
```

```
[Out] int((d + e*x)/(a + b*x^n + c*x^(2*n))^2, x)
```

```
sympy [F(-1)] time = 0.00, size = 0, normalized size = 0.00
```

Timed out

Verification of antiderivative is not currently implemented for this CAS.

```
[In] integrate((e*x+d)/(a+b*x**n+c*x**(2*n))**2,x)
```

```
[Out] Timed out
```

$$3.8 \quad \int \frac{d+ex+fx^2}{(a+bx^n+cx^{2n})^2} dx$$

Optimal. Leaf size=1194

$$\frac{2bc^2e(2-n) {}_2F_1\left(1, \frac{n+2}{n}; 2\left(1+\frac{1}{n}\right); -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right) x^{n+2}}{a(b^2-4ac)^{3/2} (b-\sqrt{b^2-4ac}) n(n+2)} + \frac{2bc^2e(2-n) {}_2F_1\left(1, \frac{n+2}{n}; 2\left(1+\frac{1}{n}\right); -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right) x^{n+2}}{a(b^2-4ac)^{3/2} (b+\sqrt{b^2-4ac}) n(n+2)}$$

[Out] d*x*(b^2-2*a*c+b*c*x^n)/a/(-4*a*c+b^2)/n/(a+b*x^n+c*x^(2*n))+e*x^2*(b^2-2*a*c+b*c*x^n)/a/(-4*a*c+b^2)/n/(a+b*x^n+c*x^(2*n))+f*x^3*(b^2-2*a*c+b*c*x^n)/a/(-4*a*c+b^2)/n/(a+b*x^n+c*x^(2*n))-2*b*c^2*e*(2-n)*x^(2+n)*hypergeom([1, (2+n)/n], [2+2/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)^(3/2)/n/(2+n)/(b-(-4*a*c+b^2)^(1/2))-2*b*c^2*f*(3-n)*x^(3+n)*hypergeom([1, (3+n)/n], [2+3/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)^(3/2)/n/(3+n)/(b-(-4*a*c+b^2)^(1/2))+2*b*c^2*e*(2-n)*x^(2+n)*hypergeom([1, (2+n)/n], [2+2/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)^(3/2)/n/(2+n)/(b+(-4*a*c+b^2)^(1/2))+2*b*c^2*f*(3-n)*x^(3+n)*hypergeom([1, (3+n)/n], [2+3/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)^(3/2)/n/(3+n)/(b+(-4*a*c+b^2)^(1/2))-c*e*(4*a*c*(1-n)-b^2*(2-n))*x^2*hypergeom([1, 2/n], [(2+n)/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)/n/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-2/3*c*f*(2*a*c*(3-2*n)-b^2*(3-n))*x^3*hypergeom([1, 3/n], [(3+n)/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)/n/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-c*e*(4*a*c*(1-n)-b^2*(2-n))*x^2*hypergeom([1, 2/n], [(2+n)/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)/n/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))-2/3*c*f*(2*a*c*(3-2*n)-b^2*(3-n))*x^3*hypergeom([1, 3/n], [(3+n)/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)/n/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))-c*d*x*hypergeom([1, 1/n], [1+1/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))*(4*a*c*(1-2*n)-b^2*(1-n)-b*(1-n)*(-4*a*c+b^2)^(1/2))/a/(-4*a*c+b^2)/n/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-c*d*x*hypergeom([1, 1/n], [1+1/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))*(4*a*c*(1-2*n)-b^2*(1-n)+b*(1-n)*(-4*a*c+b^2)^(1/2))/a/(-4*a*c+b^2)/n/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))

Rubi [A] time = 2.05, antiderivative size = 1194, normalized size of antiderivative = 1.00, number of steps used = 24, number of rules used = 8, integrand size = 27, $\frac{\text{number of rules}}{\text{integrand size}} = 0.296$, Rules used = {1796, 1345, 1422, 245, 1384, 1560, 1383, 364}

$$\frac{2bc^2e(2-n) {}_2F_1\left(1, \frac{n+2}{n}; 2\left(1+\frac{1}{n}\right); -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right) x^{n+2}}{a(b^2-4ac)^{3/2} (b-\sqrt{b^2-4ac}) n(n+2)} + \frac{2bc^2e(2-n) {}_2F_1\left(1, \frac{n+2}{n}; 2\left(1+\frac{1}{n}\right); -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right) x^{n+2}}{a(b^2-4ac)^{3/2} (b+\sqrt{b^2-4ac}) n(n+2)}$$

Antiderivative was successfully verified.

[In] Int[(d + e*x + f*x^2)/(a + b*x^n + c*x^(2*n))^2,x]

[Out] (d*x*(b^2 - 2*a*c + b*c*x^n))/(a*(b^2 - 4*a*c)*n*(a + b*x^n + c*x^(2*n))) + (e*x^2*(b^2 - 2*a*c + b*c*x^n))/(a*(b^2 - 4*a*c)*n*(a + b*x^n + c*x^(2*n))) + (f*x^3*(b^2 - 2*a*c + b*c*x^n))/(a*(b^2 - 4*a*c)*n*(a + b*x^n + c*x^(2*n))) - (c*d*(4*a*c*(1 - 2*n) - b^2*(1 - n) - b*Sqrt[b^2 - 4*a*c]*(1 - n))*x*Hypergeometric2F1[1, n^(-1), 1 + n^(-1), (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])])/(a*(b^2 - 4*a*c)*(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c])*n) - (c*d*(4*a*c*(1 - 2*n) - b^2*(1 - n) + b*Sqrt[b^2 - 4*a*c]*(1 - n))*x*Hypergeometric2F1[1, n^(-1), 1 + n^(-1), (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])])/(a*(b^2 - 4*a*c)*(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c])*n) - (c*e*(4*a*c*(1 - n) - b^2*(2 - n))*x^2*Hypergeometric2F1[1, 2/n, (2 + n)/n, (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])])/(a*(b^2 - 4*a*c)*(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c])*n) - (c*e*(4*a*c*(1 - n) - b^2*(2 - n))*x^2*Hypergeometric2F1[1, 2/n, (2 + n)/n, (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])])/(a*(b^2 - 4*a*c)*(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c])*n) - (2*c*f*(2*a*c*(3 - 2*n) - b^2*(3 - n))*x^3*Hypergeometric2F1[1, 3/n, (3 + n)/n, (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])])/(3*a*(b^2 - 4*a*c)*(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c])*n) - (2*c*f*(2*a*c*(3 - 2*n) - b^2*(3 - n))*x^3*Hypergeometric2F1[1, 3/n, (3 + n)/n, (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])])/(3*a*(b^2 - 4*a*c)*(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c])*n) - (2*b*c^2*e*(2 - n)*x^(2 + n)*Hypergeometric2F1[1, (2 + n)/n, 2*(1 + n^(-1)), (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])])/(a*(b^2 - 4*a*c)^(3/2)*(b - Sqrt[b^2 - 4*a*c])*n*(2 + n)) + (2*b*c^2*e*(2 - n)*x^(2 + n)*Hypergeometric2F1[1, (2 + n)/n, 2*(1 + n^(-1)), (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])])/(a*(b^2 - 4*a*c)^(3/2)*(b + Sqrt[b^2 - 4*a*c])*n*(2 + n)) - (2*b*c^2*f*(3 - n)*x^(3 + n)*Hypergeometric2F1[1, (3 + n)/n, 2 + 3/n, (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])])/(a*(b^2 - 4*a*c)^(3/2)*(b - Sqrt[b^2 - 4*a*c])*n*(3 + n)) + (2*b*c^2*f*(3 - n)*x^(3 + n)*Hypergeometric2F1[1, (3 + n)/n, 2 + 3/n, (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])])/(a*(b^2 - 4*a*c)^(3/2)*(b + Sqrt[b^2 - 4*a*c])*n*(3 + n))

Rule 245

Int[((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*x*Hypergeometric2F1[-p, 1/n, 1/n + 1, -((b*x^n)/a)], x] /; FreeQ[{a, b, n, p}, x] && !IGtQ[p, 0] && !IntegerQ[1/n] && !ILtQ[Simplify[1/n + p], 0] && (IntegerQ[p] || GtQ[a, 0])

Rule 364

Int[((c_.)*(x_))^(m_.)*((a_) + (b_.)*(x_)^(n_))^(p_), x_Symbol] := Simp[(a^p*(c*x)^(m + 1)*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, -((b*x^n)/a)])/(c*(m + 1)), x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])

Rule 1345


```
Int[((a_) + (c_)*(x_)^(n2_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := -Simp[(
x*(b^2 - 2*a*c + b*c*x^n)*(a + b*x^n + c*x^(2*n))^(p + 1))/(a*n*(p + 1)*(b^
2 - 4*a*c)), x] + Dist[1/(a*n*(p + 1)*(b^2 - 4*a*c)), Int[(b^2 - 2*a*c + n*
(p + 1)*(b^2 - 4*a*c) + b*c*(n*(2*p + 3) + 1)*x^n)*(a + b*x^n + c*x^(2*n))^(
(p + 1), x], x] /; FreeQ[{a, b, c, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*
c, 0] && ILtQ[p, -1]
```

Rule 1383

```
Int[((d_)*(x_))^(m_)/((a_) + (c_)*(x_)^(n2_) + (b_)*(x_)^(n_)), x_Symb
ol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Dist[(2*c)/q, Int[(d*x)^m/(b - q + 2*
c*x^n), x], x] - Dist[(2*c)/q, Int[(d*x)^m/(b + q + 2*c*x^n), x], x]] /; Fr
eeQ[{a, b, c, d, m, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0]
```

Rule 1384

```
Int[((d_)*(x_))^(m_)*((a_) + (c_)*(x_)^(n2_) + (b_)*(x_)^(n_))^(p_), x
_Symbol] := -Simp[((d*x)^(m + 1)*(b^2 - 2*a*c + b*c*x^n)*(a + b*x^n + c*x^(
2*n))^(p + 1))/(a*d*n*(p + 1)*(b^2 - 4*a*c)), x] + Dist[1/(a*n*(p + 1)*(b^2
- 4*a*c)), Int[(d*x)^m*(a + b*x^n + c*x^(2*n))^(p + 1)*Simp[b^2*(n*(p + 1)
+ m + 1) - 2*a*c*(m + 2*n*(p + 1) + 1) + b*c*(2*n*p + 3*n + m + 1)*x^n, x]
, x], x] /; FreeQ[{a, b, c, d, m, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c
, 0] && ILtQ[p + 1, 0]
```

Rule 1422

```
Int[((d_) + (e_)*(x_)^(n_))/((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_)), x
_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Dist[e/2 + (2*c*d - b*e)/(2*q),
Int[1/(b/2 - q/2 + c*x^n), x], x] + Dist[e/2 - (2*c*d - b*e)/(2*q), Int[1/(
b/2 + q/2 + c*x^n), x], x]] /; FreeQ[{a, b, c, d, e, n}, x] && EqQ[n2, 2*n]
&& NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && (PosQ[b^2 - 4*a
*c] || !IGtQ[n/2, 0])
```

Rule 1560

```
Int[((f_)*(x_))^(m_)*((a_) + (c_)*(x_)^(n2_) + (b_)*(x_)^(n_))^(p_)*((
d_) + (e_)*(x_)^(n_))^(q_), x_Symbol] := Int[ExpandIntegrand[(f*x)^m*(d
+ e*x^n)^q*(a + b*x^n + c*x^(2*n))^p, x], x] /; FreeQ[{a, b, c, d, e, f, m,
n, p, q}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && (IGtQ[p, 0] || IGtQ
[q, 0])
```

Rule 1796

```
Int[(Pq_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] :=
Int[ExpandIntegrand[Pq*(a + b*x^n + c*x^(2*n))^p, x], x] /; FreeQ[{a, b, c,
```

n}, x] && EqQ[n2, 2*n] && PolyQ[Pq, x] && ILtQ[p, -1]

Rubi steps

$$\begin{aligned}
 \int \frac{d + ex + fx^2}{(a + bx^n + cx^{2n})^2} dx &= \int \left(\frac{d}{(a + bx^n + cx^{2n})^2} + \frac{ex}{(a + bx^n + cx^{2n})^2} + \frac{fx^2}{(a + bx^n + cx^{2n})^2} \right) dx \\
 &= d \int \frac{1}{(a + bx^n + cx^{2n})^2} dx + e \int \frac{x}{(a + bx^n + cx^{2n})^2} dx + f \int \frac{x^2}{(a + bx^n + cx^{2n})^2} dx \\
 &= \frac{dx(b^2 - 2ac + bcx^n)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} + \frac{ex^2(b^2 - 2ac + bcx^n)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} + \frac{fx^3(b^2 - 2ac)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} \\
 &= \frac{dx(b^2 - 2ac + bcx^n)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} + \frac{ex^2(b^2 - 2ac + bcx^n)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} + \frac{fx^3(b^2 - 2ac)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} \\
 &= \frac{dx(b^2 - 2ac + bcx^n)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} + \frac{ex^2(b^2 - 2ac + bcx^n)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} + \frac{fx^3(b^2 - 2ac)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} \\
 &= \frac{dx(b^2 - 2ac + bcx^n)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} + \frac{ex^2(b^2 - 2ac + bcx^n)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} + \frac{fx^3(b^2 - 2ac)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} \\
 &= \frac{dx(b^2 - 2ac + bcx^n)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} + \frac{ex^2(b^2 - 2ac + bcx^n)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})} + \frac{fx^3(b^2 - 2ac)}{a(b^2 - 4ac)n(a + bx^n + cx^{2n})}
 \end{aligned}$$

Mathematica [B] time = 6.51, size = 6525, normalized size = 5.46

Result too large to show

Warning: Unable to verify antiderivative.

[In] Integrate[(d + e*x + f*x^2)/(a + b*x^n + c*x^(2*n))^2, x]

[Out] Result too large to show

fricas [F] time = 0.75, size = 0, normalized size = 0.00

$$\text{integral} \left(\frac{fx^2 + ex + d}{c^2x^{4n} + b^2x^{2n} + 2abx^n + a^2 + 2(bc x^n + ac)x^{2n}}, x \right)$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((f*x^2+e*x+d)/(a+b*x^n+c*x^(2*n))^2,x, algorithm="fricas")

[Out] integral((f*x^2 + e*x + d)/(c^2*x^(4*n) + b^2*x^(2*n) + 2*a*b*x^n + a^2 + 2*(b*c*x^n + a*c)*x^(2*n)), x)

giac [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{fx^2 + ex + d}{(cx^{2n} + bx^n + a)^2} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((f*x^2+e*x+d)/(a+b*x^n+c*x^(2*n))^2,x, algorithm="giac")

[Out] integrate((f*x^2 + e*x + d)/(c*x^(2*n) + b*x^n + a)^2, x)

maple [F] time = 0.07, size = 0, normalized size = 0.00

$$\int \frac{fx^2 + ex + d}{(bx^n + cx^{2n} + a)^2} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((f*x^2+e*x+d)/(b*x^n+c*x^(2*n)+a)^2,x)

[Out] int((f*x^2+e*x+d)/(b*x^n+c*x^(2*n)+a)^2,x)

maxima [F] time = 0.00, size = 0, normalized size = 0.00

$$\frac{(b^2f - 2acf)x^3 + (b^2e - 2ace)x^2 + (bcfx^3 + bcex^2 + bcdx)x^n + (b^2d - 2acd)x}{a^2b^2n - 4a^3cn + (ab^2cn - 4a^2c^2n)x^{2n} + (ab^3n - 4a^2bcn)x^n} \int \frac{2acd(2n-1) - b^2d(n-1)}{a^2b^2n - 4a^3cn + (ab^2cn - 4a^2c^2n)x^{2n} + (ab^3n - 4a^2bcn)x^n} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((f*x^2+e*x+d)/(a+b*x^n+c*x^(2*n))^2,x, algorithm="maxima")

[Out] ((b^2*f - 2*a*c*f)*x^3 + (b^2*e - 2*a*c*e)*x^2 + (b*c*f*x^3 + b*c*e*x^2 + b*c*d*x)*x^n + (b^2*d - 2*a*c*d)*x)/(a^2*b^2*n - 4*a^3*c*n + (a*b^2*c*n - 4*a^2*c^2*n)*x^(2*n) + (a*b^3*n - 4*a^2*b*c*n)*x^n) - integrate((2*a*c*d*(2*n - 1) - b^2*d*(n - 1) + (2*a*c*f*(2*n - 3) - b^2*f*(n - 3))*x^2 - (b*c*f*(n - 3)*x^2 + b*c*e*(n - 2)*x + b*c*d*(n - 1))*x^n + (4*a*c*e*(n - 1) - b^2*e*(n - 2))*x)/(a^2*b^2*n - 4*a^3*c*n + (a*b^2*c*n - 4*a^2*c^2*n)*x^(2*n) + (a*b^3*n - 4*a^2*b*c*n)*x^n), x)

mupad [F] time = 0.00, size = -1, normalized size = -0.00

$$\int \frac{f x^2 + e x + d}{(a + b x^n + c x^{2n})^2} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] `int((d + e*x + f*x^2)/(a + b*x^n + c*x^(2*n))^2, x)`

[Out] `int((d + e*x + f*x^2)/(a + b*x^n + c*x^(2*n))^2, x)`

sympy [F(-1)] time = 0.00, size = 0, normalized size = 0.00

Timed out

Verification of antiderivative is not currently implemented for this CAS.

[In] `integrate((f*x**2+e*x+d)/(a+b*x**n+c*x**(2*n))**2, x)`

[Out] Timed out

$$3.9 \quad \int \frac{d+ex+fx^2+gx^3}{(a+bx^n+cx^{2n})^2} dx$$

Optimal. Leaf size=1654

$$\frac{2bc^2e(2-n) {}_2F_1\left(1, \frac{n+2}{n}; 2\left(1+\frac{1}{n}\right); -\frac{2cx^n}{b-\sqrt{b^2-4ac}}\right) x^{n+2}}{a(b^2-4ac)^{3/2} \left(b-\sqrt{b^2-4ac}\right) n(n+2)} + \frac{2bc^2e(2-n) {}_2F_1\left(1, \frac{n+2}{n}; 2\left(1+\frac{1}{n}\right); -\frac{2cx^n}{b+\sqrt{b^2-4ac}}\right) x^{n+2}}{a(b^2-4ac)^{3/2} \left(b+\sqrt{b^2-4ac}\right) n(n+2)}$$

[Out] d*x*(b^2-2*a*c+b*c*x^n)/a/(-4*a*c+b^2)/n/(a+b*x^n+c*x^(2*n))+e*x^2*(b^2-2*a*c+b*c*x^n)/a/(-4*a*c+b^2)/n/(a+b*x^n+c*x^(2*n))+f*x^3*(b^2-2*a*c+b*c*x^n)/a/(-4*a*c+b^2)/n/(a+b*x^n+c*x^(2*n))+g*x^4*(b^2-2*a*c+b*c*x^n)/a/(-4*a*c+b^2)/n/(a+b*x^n+c*x^(2*n))-2*b*c^2*e*(2-n)*x^(2+n)*hypergeom([1, (2+n)/n], [2+2/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)^(3/2)/n/(2+n)/(b-(-4*a*c+b^2)^(1/2))-2*b*c^2*f*(3-n)*x^(3+n)*hypergeom([1, (3+n)/n], [2+3/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)^(3/2)/n/(3+n)/(b-(-4*a*c+b^2)^(1/2))-2*b*c^2*g*(4-n)*x^(4+n)*hypergeom([1, (4+n)/n], [2+4/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)^(3/2)/n/(4+n)/(b-(-4*a*c+b^2)^(1/2))+2*b*c^2*e*(2-n)*x^(2+n)*hypergeom([1, (2+n)/n], [2+2/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)^(3/2)/n/(2+n)/(b+(-4*a*c+b^2)^(1/2))+2*b*c^2*f*(3-n)*x^(3+n)*hypergeom([1, (3+n)/n], [2+3/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)^(3/2)/n/(3+n)/(b+(-4*a*c+b^2)^(1/2))+2*b*c^2*g*(4-n)*x^(4+n)*hypergeom([1, (4+n)/n], [2+4/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)^(3/2)/n/(4+n)/(b+(-4*a*c+b^2)^(1/2))-c*e*(4*a*c*(1-n)-b^2*(2-n))*x^2*hypergeom([1, 2/n], [(2+n)/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)/n/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-2/3*c*f*(2*a*c*(3-2*n)-b^2*(3-n))*x^3*hypergeom([1, 3/n], [(3+n)/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)/n/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-1/2*c*g*(4*a*c*(2-n)-b^2*(4-n))*x^4*hypergeom([1, 4/n], [(4+n)/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)/n/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-c*e*(4*a*c*(1-n)-b^2*(2-n))*x^2*hypergeom([1, 2/n], [(2+n)/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)/n/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))-2/3*c*f*(2*a*c*(3-2*n)-b^2*(3-n))*x^3*hypergeom([1, 3/n], [(3+n)/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)/n/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))-1/2*c*g*(4*a*c*(2-n)-b^2*(4-n))*x^4*hypergeom([1, 4/n], [(4+n)/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))/a/(-4*a*c+b^2)/n/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))-c*d*x*hypergeom([1, 1/n], [1+1/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))*(4*a*c*(1-2*n)-b^2*(1-n)-b*(1-n)*(-4*a*c+b^2)^(1/2))/a/(-4*a*c+b^2)/n/(b^2-4*a*c-b*(-4*a*c+b^2)^(1/2))-c*d*x*hypergeom([1, 1/n], [1+1/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))*(4*a*c*(1-2*n)-b^2*(1-n)+b*(1-n)*(-4*a*c+b^2)^(1/2))/a/(-4*a*c+b^2)/n/(b^2-4*a*c+b*(-4*a*c+b^2)^(1/2))

Rubi [A] time = 2.91, antiderivative size = 1654, normalized size of antiderivative = 1.00, number of steps used = 33, number of rules used = 8, integrand size = 32,

$\frac{\text{number of rules}}{\text{integrand size}} = 0.250$, Rules used = {1796, 1345, 1422, 245, 1384, 1560, 1383, 364}

result too large to display

Antiderivative was successfully verified.

[In] Int[(d + e*x + f*x^2 + g*x^3)/(a + b*x^n + c*x^(2*n))^2,x]

[Out] (d*x*(b^2 - 2*a*c + b*c*x^n))/(a*(b^2 - 4*a*c)*n*(a + b*x^n + c*x^(2*n))) + (e*x^2*(b^2 - 2*a*c + b*c*x^n))/(a*(b^2 - 4*a*c)*n*(a + b*x^n + c*x^(2*n))) + (f*x^3*(b^2 - 2*a*c + b*c*x^n))/(a*(b^2 - 4*a*c)*n*(a + b*x^n + c*x^(2*n))) + (g*x^4*(b^2 - 2*a*c + b*c*x^n))/(a*(b^2 - 4*a*c)*n*(a + b*x^n + c*x^(2*n))) - (c*d*(4*a*c*(1 - 2*n) - b^2*(1 - n) - b*Sqrt[b^2 - 4*a*c]*(1 - n))*x*Hypergeometric2F1[1, n^(-1), 1 + n^(-1), (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])]/(a*(b^2 - 4*a*c)*(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c])*n) - (c*d*(4*a*c*(1 - 2*n) - b^2*(1 - n) + b*Sqrt[b^2 - 4*a*c]*(1 - n))*x*Hypergeometric2F1[1, n^(-1), 1 + n^(-1), (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])]/(a*(b^2 - 4*a*c)*(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c])*n) - (c*e*(4*a*c*(1 - n) - b^2*(2 - n))*x^2*Hypergeometric2F1[1, 2/n, (2 + n)/n, (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])]/(a*(b^2 - 4*a*c)*(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c])*n) - (c*e*(4*a*c*(1 - n) - b^2*(2 - n))*x^2*Hypergeometric2F1[1, 2/n, (2 + n)/n, (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])]/(a*(b^2 - 4*a*c)*(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c])*n) - (2*c*f*(2*a*c*(3 - 2*n) - b^2*(3 - n))*x^3*Hypergeometric2F1[1, 3/n, (3 + n)/n, (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])]/(3*a*(b^2 - 4*a*c)*(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c])*n) - (2*c*f*(2*a*c*(3 - 2*n) - b^2*(3 - n))*x^3*Hypergeometric2F1[1, 3/n, (3 + n)/n, (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])]/(3*a*(b^2 - 4*a*c)*(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c])*n) - (c*g*(4*a*c*(2 - n) - b^2*(4 - n))*x^4*Hypergeometric2F1[1, 4/n, (4 + n)/n, (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])]/(2*a*(b^2 - 4*a*c)*(b^2 - 4*a*c - b*Sqrt[b^2 - 4*a*c])*n) - (c*g*(4*a*c*(2 - n) - b^2*(4 - n))*x^4*Hypergeometric2F1[1, 4/n, (4 + n)/n, (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])]/(2*a*(b^2 - 4*a*c)*(b^2 - 4*a*c + b*Sqrt[b^2 - 4*a*c])*n) - (2*b*c^2*e*(2 - n)*x^(2 + n)*Hypergeometric2F1[1, (2 + n)/n, 2*(1 + n^(-1)), (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])]/(a*(b^2 - 4*a*c)^(3/2)*(b - Sqrt[b^2 - 4*a*c])*n*(2 + n)) + (2*b*c^2*e*(2 - n)*x^(2 + n)*Hypergeometric2F1[1, (2 + n)/n, 2*(1 + n^(-1)), (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])]/(a*(b^2 - 4*a*c)^(3/2)*(b + Sqrt[b^2 - 4*a*c])*n*(2 + n)) - (2*b*c^2*f*(3 - n)*x^(3 + n)*Hypergeometric2F1[1, (3 + n)/n, 2 + 3/n, (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])]/(a*(b^2 - 4*a*c)^(3/2)*(b - Sqrt[b^2 - 4*a*c])*n*(3 + n)) + (2*b*c^2*f*(3 - n)*x^(3 + n)*Hypergeometric2F1[1, (3 + n)/n, 2 + 3/n, (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])]/(a*(b^2 - 4*a*c)^(3/2)*(b + Sqrt[b^2 - 4*a*c])*n*(3 + n)) - (2*b*c^2*g*(4 - n)*x^(4 + n)*Hypergeometric2F1[1, (4 + n)/n, 2*(1 + 2/n), (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])]/(a*(b^2 - 4*a*c)^(3/2)*(b - Sqrt[b^2 - 4*a*c])*n*(4 + n)) + (2*b*c^2*g*(4 - n)*x^(4 + n)*Hypergeometric2F1[1, (4 + n)/n, 2*(1 + 2/n), (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])]/(a*(b^2 - 4*a*c)^(3/2)*(b + Sqrt[b^2 - 4*a*c])*n*(4 + n))

Rule 245

```
Int[((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*x*Hypergeometric2F1[-p, 1/n, 1/n + 1, -((b*x^n)/a)], x] /; FreeQ[{a, b, n, p}, x] && !IGtQ[p, 0] && !IntegerQ[1/n] && !ILtQ[Simplify[1/n + p], 0] && (IntegerQ[p] || GtQ[a, 0])
```

Rule 364

```
Int[((c_)*(x_)^(m_))*((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[(a^p*(c*x)^(m + 1)*Hypergeometric2F1[-p, (m + 1)/n, (m + 1)/n + 1, -((b*x^n)/a)])/((c*(m + 1)), x] /; FreeQ[{a, b, c, m, n, p}, x] && !IGtQ[p, 0] && (ILtQ[p, 0] || GtQ[a, 0])
```

Rule 1345

```
Int[((a_) + (c_)*(x_)^(n2_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := -Simp[(x*(b^2 - 2*a*c + b*c*x^n)*(a + b*x^n + c*x^(2*n))^(p + 1))/(a*n*(p + 1)*(b^2 - 4*a*c)), x] + Dist[1/(a*n*(p + 1)*(b^2 - 4*a*c)), Int[(b^2 - 2*a*c + n*(p + 1)*(b^2 - 4*a*c) + b*c*(n*(2*p + 3) + 1)*x^n)*(a + b*x^n + c*x^(2*n))^(p + 1), x], x] /; FreeQ[{a, b, c, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && ILtQ[p, -1]
```

Rule 1383

```
Int[((d_)*(x_)^(m_))/((a_) + (c_)*(x_)^(n2_) + (b_)*(x_)^(n_)), x_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Dist[(2*c)/q, Int[(d*x)^m/(b - q + 2*c*x^n), x], x] - Dist[(2*c)/q, Int[(d*x)^m/(b + q + 2*c*x^n), x], x]] /; FreeQ[{a, b, c, d, m, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0]
```

Rule 1384

```
Int[((d_)*(x_)^(m_))*((a_) + (c_)*(x_)^(n2_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := -Simp[((d*x)^(m + 1)*(b^2 - 2*a*c + b*c*x^n)*(a + b*x^n + c*x^(2*n))^(p + 1))/(a*d*n*(p + 1)*(b^2 - 4*a*c)), x] + Dist[1/(a*n*(p + 1)*(b^2 - 4*a*c)), Int[(d*x)^m*(a + b*x^n + c*x^(2*n))^(p + 1)*Simp[b^2*(n*(p + 1) + m + 1) - 2*a*c*(m + 2*n*(p + 1) + 1) + b*c*(2*n*p + 3*n + m + 1)*x^n, x], x], x] /; FreeQ[{a, b, c, d, m, n}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && ILtQ[p + 1, 0]
```

Rule 1422

```
Int[((d_) + (e_)*(x_)^(n_))/((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_)), x_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Dist[e/2 + (2*c*d - b*e)/(2*q), Int[1/(b/2 - q/2 + c*x^n), x], x] + Dist[e/2 - (2*c*d - b*e)/(2*q), Int[1/(
```

```
b/2 + q/2 + c*x^n), x], x]] /; FreeQ[{a, b, c, d, e, n}, x] && EqQ[n2, 2*n]
&& NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && (PosQ[b^2 - 4*a
*c] || !IGtQ[n/2, 0])
```

Rule 1560

```
Int[((f_)*(x_)^(m_)*((a_) + (c_)*(x_)^(n2_)) + (b_)*(x_)^(n_))^(p_)*
(d_) + (e_)*(x_)^(n_))^(q_), x_Symbol] := Int[ExpandIntegrand[(f*x)^m*(d
+ e*x^n)^q*(a + b*x^n + c*x^(2*n))^p, x], x] /; FreeQ[{a, b, c, d, e, f, m,
n, p, q}, x] && EqQ[n2, 2*n] && NeQ[b^2 - 4*a*c, 0] && (IGtQ[p, 0] || IGtQ
[q, 0])
```

Rule 1796

```
Int[(Pq_)*((a_) + (b_)*(x_)^(n_)) + (c_)*(x_)^(n2_))^(p_), x_Symbol] :=
Int[ExpandIntegrand[Pq*(a + b*x^n + c*x^(2*n))^p, x], x] /; FreeQ[{a, b, c,
n}, x] && EqQ[n2, 2*n] && PolyQ[Pq, x] && ILtQ[p, -1]
```

Rubi steps

$$\begin{aligned}
\int \frac{d + ex + fx^2 + gx^3}{(a + bx^n + cx^{2n})^2} dx &= \int \left(\frac{d}{(a + bx^n + cx^{2n})^2} + \frac{ex}{(a + bx^n + cx^{2n})^2} + \frac{fx^2}{(a + bx^n + cx^{2n})^2} + \frac{gx^3}{(a + bx^n + cx^{2n})^2} \right) dx \\
&= d \int \frac{1}{(a + bx^n + cx^{2n})^2} dx + e \int \frac{x}{(a + bx^n + cx^{2n})^2} dx + f \int \frac{x^2}{(a + bx^n + cx^{2n})^2} dx + g \int \frac{x^3}{(a + bx^n + cx^{2n})^2} dx \\
&= \frac{dx (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{ex^2 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{fx^3 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{gx^4 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} \\
&= \frac{dx (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{ex^2 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{fx^3 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{gx^4 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} \\
&= \frac{dx (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{ex^2 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{fx^3 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{gx^4 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} \\
&= \frac{dx (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{ex^2 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{fx^3 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{gx^4 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} \\
&= \frac{dx (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{ex^2 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{fx^3 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})} + \frac{gx^4 (b^2 - 2ac + bcx^n)}{a (b^2 - 4ac) n (a + bx^n + cx^{2n})}
\end{aligned}$$

Mathematica [B] time = 6.62, size = 8737, normalized size = 5.28

Result too large to show

Warning: Unable to verify antiderivative.

[In] Integrate[(d + e*x + f*x^2 + g*x^3)/(a + b*x^n + c*x^(2*n))^2,x]

[Out] Result too large to show

fricas [F] time = 0.59, size = 0, normalized size = 0.00

$$\text{integral} \left(\frac{gx^3 + fx^2 + ex + d}{c^2x^{4n} + b^2x^{2n} + 2abx^n + a^2 + 2(bc x^n + ac)x^{2n}}, x \right)$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((g*x^3+f*x^2+e*x+d)/(a+b*x^n+c*x^(2*n))^2,x, algorithm="fricas")

[Out] integral((g*x^3 + f*x^2 + e*x + d)/(c^2*x^(4*n) + b^2*x^(2*n) + 2*a*b*x^n + a^2 + 2*(b*c*x^n + a*c)*x^(2*n)), x)

giac [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{gx^3 + fx^2 + ex + d}{(cx^{2n} + bx^n + a)^2} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((g*x^3+f*x^2+e*x+d)/(a+b*x^n+c*x^(2*n))^2,x, algorithm="giac")

[Out] integrate((g*x^3 + f*x^2 + e*x + d)/(c*x^(2*n) + b*x^n + a)^2, x)

maple [F] time = 0.09, size = 0, normalized size = 0.00

$$\int \frac{gx^3 + fx^2 + ex + d}{(bx^n + cx^{2n} + a)^2} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((g*x^3+f*x^2+e*x+d)/(b*x^n+c*x^(2*n)+a)^2,x)

[Out] int((g*x^3+f*x^2+e*x+d)/(b*x^n+c*x^(2*n)+a)^2,x)

maxima [F] time = 0.00, size = 0, normalized size = 0.00

$$\frac{(b^2g - 2acg)x^4 + (b^2f - 2acf)x^3 + (b^2e - 2ace)x^2 + (bcgx^4 + bcfx^3 + bcex^2 + bcdx)x^n + (b^2d - 2acd)x}{a^2b^2n - 4a^3cn + (ab^2cn - 4a^2c^2n)x^{2n} + (ab^3n - 4a^2bcn)x^n} \int \frac{2}{x} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((g*x^3+f*x^2+e*x+d)/(a+b*x^n+c*x^(2*n))^2,x, algorithm="maxima")

[Out] ((b^2*g - 2*a*c*g)*x^4 + (b^2*f - 2*a*c*f)*x^3 + (b^2*e - 2*a*c*e)*x^2 + (b*c*g*x^4 + b*c*f*x^3 + b*c*e*x^2 + b*c*d*x)*x^n + (b^2*d - 2*a*c*d)*x)/(a^2*b^2*n - 4*a^3*c*n + (a*b^2*c*n - 4*a^2*c^2*n)*x^(2*n) + (a*b^3*n - 4*a^2*b*c*n)*x^n) - integrate((2*a*c*d*(2*n - 1) - b^2*d*(n - 1) + (4*a*c*g*(n - 2) - b^2*g*(n - 4))*x^3 + (2*a*c*f*(2*n - 3) - b^2*f*(n - 3))*x^2 - (b*c*g*(n - 4)*x^3 + b*c*f*(n - 3)*x^2 + b*c*e*(n - 2)*x + b*c*d*(n - 1))*x^n + (4*a*c*e*(n - 1) - b^2*e*(n - 2))*x)/(a^2*b^2*n - 4*a^3*c*n + (a*b^2*c*n - 4*a^2*c^2*n)*x^(2*n) + (a*b^3*n - 4*a^2*b*c*n)*x^n), x)

mupad [F] time = 0.00, size = -1, normalized size = -0.00

$$\int \frac{g x^3 + f x^2 + e x + d}{(a + b x^n + c x^{2n})^2} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((d + e*x + f*x^2 + g*x^3)/(a + b*x^n + c*x^(2*n))^2, x)

[Out] int((d + e*x + f*x^2 + g*x^3)/(a + b*x^n + c*x^(2*n))^2, x)

sympy [F(-1)] time = 0.00, size = 0, normalized size = 0.00

Timed out

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((g*x**3+f*x**2+e*x+d)/(a+b*x**n+c*x**(2*n))**2, x)

[Out] Timed out

$$3.10 \quad \int \frac{-ahx^{-1+\frac{n}{2}} + cfx^{-1+n} + cgx^{-1+2n} + chx^{-1+\frac{5n}{2}}}{(a+bx^n+cx^{2n})^{3/2}} dx$$

Optimal. Leaf size=75

$$\frac{2 \left(hx^{n/2} (b^2 - 4ac) + c(bf - 2ag) + cx^n(2cf - bg) \right)}{n (b^2 - 4ac) \sqrt{a + bx^n + cx^{2n}}}$$

[Out] $-2*(c*(-2*a*g+b*f)+(-4*a*c+b^2)*h*x^{(1/2*n)}+c*(-b*g+2*c*f)*x^n)/(-4*a*c+b^2)/n/(a+b*x^n+c*x^{(2*n)})^{(1/2)}$

Rubi [A] time = 0.53, antiderivative size = 75, normalized size of antiderivative = 1.00, number of steps used = 2, number of rules used = 2, integrand size = 63, $\frac{\text{number of rules}}{\text{integrand size}} = 0.032$, Rules used = {6741, 1753}

$$\frac{2 \left(hx^{n/2} (b^2 - 4ac) + c(bf - 2ag) + cx^n(2cf - bg) \right)}{n (b^2 - 4ac) \sqrt{a + bx^n + cx^{2n}}}$$

Antiderivative was successfully verified.

[In] $\text{Int}[(-a*h*x^{(-1 + n/2)}) + c*f*x^{(-1 + n)} + c*g*x^{(-1 + 2*n)} + c*h*x^{(-1 + (5*n)/2)}]/(a + b*x^n + c*x^{(2*n)})^{(3/2)}, x]$

[Out] $(-2*(c*(b*f - 2*a*g) + (b^2 - 4*a*c)*h*x^{(n/2)} + c*(2*c*f - b*g)*x^n))/((b^2 - 4*a*c)*n*\text{Sqrt}[a + b*x^n + c*x^{(2*n)}])$

Rule 1753

$\text{Int}[((x_)^{(m_.)}*((e_) + (f_.)*(x_)^{(q_.)} + (g_.)*(x_)^{(r_.)} + (h_.)*(x_)^{(s_.)}))/((a_) + (b_.)*(x_)^{(n_.)} + (c_.)*(x_)^{(n2_.)})^{(3/2)}, x_Symbol] :> -\text{Simp}[(2*c*(b*f - 2*a*g) + 2*h*(b^2 - 4*a*c)*x^{(n/2)} + 2*c*(2*c*f - b*g)*x^n)/(c*n*(b^2 - 4*a*c)*\text{Sqrt}[a + b*x^n + c*x^{(2*n)}]), x] /; \text{FreeQ}[{a, b, c, e, f, g, h, m, n}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[q, n/2] \&\& \text{EqQ}[r, (3*n)/2] \&\& \text{EqQ}[s, 2*n] \&\& \text{NeQ}[b^2 - 4*a*c, 0] \&\& \text{EqQ}[2*m - n + 2, 0] \&\& \text{EqQ}[c*e + a*h, 0]$

Rule 6741

$\text{Int}[u_, x_Symbol] :> \text{With}[\{v = \text{NormalizeIntegrand}[u, x]\}, \text{Int}[v, x] /; v \neq u]$

Rubi steps

$$\int \frac{-ahx^{-1+\frac{n}{2}} + cf x^{-1+n} + c g x^{-1+2n} + chx^{-1+\frac{5n}{2}}}{(a + bx^n + cx^{2n})^{3/2}} dx = \int \frac{x^{-1+\frac{n}{2}} (-ah + cf x^{n/2} + c g x^{3n/2} + chx^{2n})}{(a + bx^n + cx^{2n})^{3/2}} dx$$

$$= -\frac{2(c(bf - 2ag) + (b^2 - 4ac)hx^{n/2} + c(2cf - bg)x^n)}{(b^2 - 4ac)n\sqrt{a + bx^n + cx^{2n}}}$$

Mathematica [F] time = 0.00, size = 0, normalized size = 0.00

\$Aborted

Verification is Not applicable to the result.

[In] Integrate[(-a*h*x^(-1 + n/2)) + c*f*x^(-1 + n) + c*g*x^(-1 + 2*n) + c*h*x^(-1 + (5*n)/2)]/(a + b*x^n + c*x^(2*n))^(3/2), x]

[Out] \$Aborted

fricas [A] time = 0.76, size = 137, normalized size = 1.83

$$\frac{2\sqrt{cx^4x^{2n-4} + bx^2x^{n-2} + a}\left((2c^2f - bcg)x^2x^{n-2} + (b^2 - 4ac)hxx^{\frac{1}{2}n-1} + bcf - 2acg\right)}{(b^2c - 4ac^2)nx^4x^{2n-4} + (b^3 - 4abc)nx^2x^{n-2} + (ab^2 - 4a^2c)n}$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((-a*h*x^(-1+1/2*n)+c*f*x^(-1+n)+c*g*x^(-1+2*n)+c*h*x^(-1+5/2*n)))/(a+b*x^n+c*x^(2*n))^(3/2), x, algorithm="fricas")

[Out] -2*sqrt(c*x^4*x^(2*n - 4) + b*x^2*x^(n - 2) + a)*((2*c^2*f - b*c*g)*x^2*x^(n - 2) + (b^2 - 4*a*c)*h*x*x^(1/2*n - 1) + b*c*f - 2*a*c*g)/((b^2*c - 4*a*c^2)*n*x^4*x^(2*n - 4) + (b^3 - 4*a*b*c)*n*x^2*x^(n - 2) + (a*b^2 - 4*a^2*c)*n)

giac [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{chx^{\frac{5}{2}n-1} + c g x^{2n-1} + cf x^{n-1} - ahx^{\frac{1}{2}n-1}}{(cx^{2n} + bx^n + a)^{\frac{3}{2}}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((-a*h*x^(-1+1/2*n)+c*f*x^(-1+n)+c*g*x^(-1+2*n)+c*h*x^(-1+5/2*n)))/(a+b*x^n+c*x^(2*n))^(3/2), x, algorithm="giac")

[Out] integrate((c*h*x^(5/2*n - 1) + c*g*x^(2*n - 1) + c*f*x^(n - 1) - a*h*x^(1/2*n - 1))/(c*x^(2*n) + b*x^n + a)^(3/2), x)

maple [F] time = 0.07, size = 0, normalized size = 0.00

$$\int \frac{-ahx^{\frac{n}{2}-1} + cfx^{n-1} + cgx^{2n-1} + chx^{\frac{5n}{2}-1}}{(bx^n + cx^{2n} + a)^{\frac{3}{2}}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((-a*h*x^(-1+1/2*n)+c*f*x^(n-1)+c*g*x^(2*n-1)+c*h*x^(-1+5/2*n))/(b*x^n+c*x^(2*n)+a)^(3/2),x)

[Out] int((-a*h*x^(-1+1/2*n)+c*f*x^(n-1)+c*g*x^(2*n-1)+c*h*x^(-1+5/2*n))/(b*x^n+c*x^(2*n)+a)^(3/2),x)

maxima [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{chx^{\frac{5}{2}n-1} + cgx^{2n-1} + cfx^{n-1} - ahx^{\frac{1}{2}n-1}}{(cx^{2n} + bx^n + a)^{\frac{3}{2}}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((-a*h*x^(-1+1/2*n)+c*f*x^(-1+n)+c*g*x^(-1+2*n)+c*h*x^(-1+5/2*n))/(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="maxima")

[Out] integrate((c*h*x^(5/2*n - 1) + c*g*x^(2*n - 1) + c*f*x^(n - 1) - a*h*x^(1/2*n - 1))/(c*x^(2*n) + b*x^n + a)^(3/2), x)

mupad [F] time = 0.00, size = -1, normalized size = -0.01

$$\int \frac{c g x^{2n-1} - a h x^{\frac{n}{2}-1} + c h x^{\frac{5n}{2}-1} + c f x^{n-1}}{(a + b x^n + c x^{2n})^{3/2}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((c*g*x^(2*n - 1) - a*h*x^(n/2 - 1) + c*h*x^((5*n)/2 - 1) + c*f*x^(n - 1))/(a + b*x^n + c*x^(2*n))^(3/2),x)

[Out] int((c*g*x^(2*n - 1) - a*h*x^(n/2 - 1) + c*h*x^((5*n)/2 - 1) + c*f*x^(n - 1))/(a + b*x^n + c*x^(2*n))^(3/2), x)

sympy [F(-1)] time = 0.00, size = 0, normalized size = 0.00

Timed out

Verification of antiderivative is not currently implemented for this CAS.

```
[In] integrate((-a*h*x**(-1+1/2*n)+c*f*x**(-1+n)+c*g*x**(-1+2*n)+c*h*x**(-1+5/2*  
n))/(a+b*x**n+c*x**(2*n))**(3/2),x)
```

```
[Out] Timed out
```

3.11 $\int (a + bx^n + cx^{2n})^p (a + b(1 + n + np)x^n + c(1 + 2n(1 +$

Optimal. Leaf size=20

$$x(a + bx^n + cx^{2n})^{p+1}$$

[Out] $x*(a+b*x^n+c*x^{(2*n)})^{(1+p)}$

Rubi [A] time = 0.02, antiderivative size = 20, normalized size of antiderivative = 1.00, number of steps used = 1, number of rules used = 1, integrand size = 45, $\frac{\text{number of rules}}{\text{integrand size}} = 0.022$, Rules used = {1775}

$$x(a + bx^n + cx^{2n})^{p+1}$$

Antiderivative was successfully verified.

[In] $\text{Int}[(a + b*x^n + c*x^{(2*n)})^p*(a + b*(1 + n + n*p)*x^n + c*(1 + 2*n*(1 + p))*x^{(2*n)}], x]$

[Out] $x*(a + b*x^n + c*x^{(2*n)})^{(1 + p)}$

Rule 1775

$\text{Int}[(a + b*x^n + c*x^{(2*n)})^p*(a + b*(1 + n + n*p)*x^n + c*(1 + 2*n*(1 + p))*x^{(2*n)}], x]$ $\rightarrow \text{Simp}[(d*x*(a + b*x^n + c*x^{(2*n)})^{(p + 1)})/a, x]$ /; $\text{FreeQ}\{a, b, c, d, e, f, n, p\}, x]$ && $\text{EqQ}[n2, 2*n]$ && $\text{EqQ}[a*e - b*d*(n*(p + 1) + 1), 0]$ && $\text{EqQ}[a*f - c*d*(2*n*(p + 1) + 1), 0]$

Rubi steps

$$\int (a + bx^n + cx^{2n})^p (a + b(1 + n + np)x^n + c(1 + 2n(1 + p))x^{2n}) dx = x(a + bx^n + cx^{2n})^{1+p}$$

Mathematica [A] time = 0.33, size = 19, normalized size = 0.95

$$x(a + x^n(b + cx^n))^{p+1}$$

Antiderivative was successfully verified.

[In] $\text{Integrate}[(a + b*x^n + c*x^{(2*n)})^p*(a + b*(1 + n + n*p)*x^n + c*(1 + 2*n*(1 + p))*x^{(2*n)}], x]$

[Out] $x*(a + x^n*(b + c*x^n))^{(1 + p)}$

fricas [A] time = 0.82, size = 35, normalized size = 1.75

$$(c x x^{2n} + b x x^n + a x)(c x^{2n} + b x^n + a)^p$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((a+b*x^n+c*x^(2*n))^p*(a+b*(n*p+n+1)*x^n+c*(1+2*n*(1+p))*x^(2*n)),x, algorithm="fricas")

[Out] (c*x*x^(2*n) + b*x*x^n + a*x)*(c*x^(2*n) + b*x^n + a)^p

giac [B] time = 0.84, size = 66, normalized size = 3.30

$$(c x^{2n} + b x^n + a)^p c x x^{2n} + (c x^{2n} + b x^n + a)^p b x x^n + (c x^{2n} + b x^n + a)^p a x$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((a+b*x^n+c*x^(2*n))^p*(a+b*(n*p+n+1)*x^n+c*(1+2*n*(1+p))*x^(2*n)),x, algorithm="giac")

[Out] (c*x^(2*n) + b*x^n + a)^p*c*x*x^(2*n) + (c*x^(2*n) + b*x^n + a)^p*b*x*x^n + (c*x^(2*n) + b*x^n + a)^p*a*x

maple [A] time = 0.05, size = 33, normalized size = 1.65

$$(b x^n + c x^{2n} + a) x (b x^n + c x^{2n} + a)^p$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((b*x^n+c*x^(2*n)+a)^p*(a+b*(n*p+n+1)*x^n+c*(1+2*(p+1)*n)*x^(2*n)),x)

[Out] x*(a+b*x^n+c*(x^n)^2)*(a+b*x^n+c*(x^n)^2)^p

maxima [A] time = 1.22, size = 35, normalized size = 1.75

$$(c x x^{2n} + b x x^n + a x)(c x^{2n} + b x^n + a)^p$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((a+b*x^n+c*x^(2*n))^p*(a+b*(n*p+n+1)*x^n+c*(1+2*n*(1+p))*x^(2*n)),x, algorithm="maxima")

[Out] (c*x*x^(2*n) + b*x*x^n + a*x)*(c*x^(2*n) + b*x^n + a)^p

mupad [B] time = 2.18, size = 35, normalized size = 1.75

$$(a + b x^n + c x^{2n})^p (a x + b x x^n + c x x^{2n})$$

Verification of antiderivative is not currently implemented for this CAS.

```
[In] int((a + b*x^n + c*x^(2*n))^p*(a + b*x^n*(n + n*p + 1) + c*x^(2*n)*(2*n*(p + 1) + 1)),x)
```

```
[Out] (a + b*x^n + c*x^(2*n))^p*(a*x + b*x*x^n + c*x*x^(2*n))
```

sympy [B] time = 50.33, size = 63, normalized size = 3.15

$$ax(a + bx^n + cx^{2n})^p + bxx^n(a + bx^n + cx^{2n})^p + cxx^{2n}(a + bx^n + cx^{2n})^p$$

Verification of antiderivative is not currently implemented for this CAS.

```
[In] integrate((a+b*x**n+c*x**(2*n))**p*(a+b*(n*p+n+1)*x**n+c*(1+2*n*(1+p))*x**(2*n)),x)
```

```
[Out] a*x*(a + b*x**n + c*x**(2*n))**p + b*x*x**n*(a + b*x**n + c*x**(2*n))**p + c*x*x**(2*n)*(a + b*x**n + c*x**(2*n))**p
```

$$3.12 \quad \int \frac{x^{-1+\frac{n}{4}}(-ah+cfx^{n/4}+cgx^{3n/4}+chx^n)}{(a+cx^n)^{3/2}} dx$$

Optimal. Leaf size=45

$$-\frac{2(ag + 2ahx^{n/4} - cfx^{n/2})}{an\sqrt{a + cx^n}}$$

[Out] $-2*(a*g+2*a*h*x^{(1/4*n)}-c*f*x^{(1/2*n)})/a/n/(a+c*x^n)^{(1/2)}$

Rubi [A] time = 0.08, antiderivative size = 45, normalized size of antiderivative = 1.00, number of steps used = 1, number of rules used = 1, integrand size = 52, $\frac{\text{number of rules}}{\text{integrand size}} = 0.019$, Rules used = {1816}

$$-\frac{2(ag + 2ahx^{n/4} - cfx^{n/2})}{an\sqrt{a + cx^n}}$$

Antiderivative was successfully verified.

[In] $\text{Int}[(x^{(-1 + n/4)}*(-(a*h) + c*f*x^{(n/4)} + c*g*x^{((3*n)/4)} + c*h*x^n))/(a + c*x^n)^{(3/2)}, x]$

[Out] $(-2*(a*g + 2*a*h*x^{(n/4)} - c*f*x^{(n/2)}))/(a*n*\text{Sqrt}[a + c*x^n])$

Rule 1816

$\text{Int}[(x_{-})^{(m_{-})}*((e_{-}) + (h_{-})*(x_{-})^{(n_{-})} + (f_{-})*(x_{-})^{(q_{-})} + (g_{-})*(x_{-})^{(r_{-})})]/((a_{-}) + (c_{-})*(x_{-})^{(n_{-})})^{(3/2)}, x_Symbol] :> -\text{Simp}[(2*a*g + 4*a*h*x^{(n/4)} - 2*c*f*x^{(n/2)})/(a*c*n*\text{Sqrt}[a + c*x^n]), x] /; \text{FreeQ}[\{a, c, e, f, g, h, m, n\}, x] \&\& \text{EqQ}[q, n/4] \&\& \text{EqQ}[r, (3*n)/4] \&\& \text{EqQ}[4*m - n + 4, 0] \&\& \text{EqQ}[c*e + a*h, 0]$

Rubi steps

$$\int \frac{x^{-1+\frac{n}{4}}(-ah+cfx^{n/4}+cgx^{3n/4}+chx^n)}{(a+cx^n)^{3/2}} dx = -\frac{2(ag + 2ahx^{n/4} - cfx^{n/2})}{an\sqrt{a + cx^n}}$$

Mathematica [A] time = 0.21, size = 45, normalized size = 1.00

$$\frac{2cfx^{n/2} - 2a(g + 2hx^{n/4})}{an\sqrt{a + cx^n}}$$

Antiderivative was successfully verified.

[In] Integrate[(x^{-1 + n/4})*(-(a*h) + c*f*x^(n/4) + c*g*x^{((3*n)/4)} + c*h*xⁿ)/(a + c*xⁿ)^(3/2),x]

[Out] (2*c*f*x^(n/2) - 2*a*(g + 2*h*x^(n/4)))/(a*n*Sqrt[a + c*xⁿ])

fricas [A] time = 0.64, size = 48, normalized size = 1.07

$$\frac{2 \left(c f x^{\frac{1}{2}n} - 2 a h x^{\frac{1}{4}n} - a g \right) \sqrt{c x^n + a}}{a c n x^n + a^2 n}$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate(x^(-1+1/4*n)*(-a*h+c*f*x^(1/4*n)+c*g*x^(3/4*n)+c*h*xⁿ)/(a+c*xⁿ)^(3/2),x, algorithm="fricas")

[Out] 2*(c*f*x^(1/2*n) - 2*a*h*x^(1/4*n) - a*g)*sqrt(c*xⁿ + a)/(a*c*n*xⁿ + a²*n)

giac [A] time = 35.01, size = 39, normalized size = 0.87

$$\frac{2 \left(\left(\frac{c f (x^n)^{\frac{1}{4}}}{a} - 2 h \right) (x^n)^{\frac{1}{4}} - g \right)}{\sqrt{c x^n + a} n}$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate(x^(-1+1/4*n)*(-a*h+c*f*x^(1/4*n)+c*g*x^(3/4*n)+c*h*xⁿ)/(a+c*xⁿ)^(3/2),x, algorithm="giac")

[Out] 2*((c*f*(xⁿ)^(1/4)/a - 2*h)*(xⁿ)^(1/4) - g)/(sqrt(c*xⁿ + a)*n)

maple [F] time = 0.10, size = 0, normalized size = 0.00

$$\int \frac{\left(c f x^{\frac{n}{4}} + c g x^{\frac{3n}{4}} + c h x^n - a h \right) x^{\frac{n}{4}-1}}{(c x^n + a)^{\frac{3}{2}}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int(x^(-1+1/4*n)*(-a*h+c*f*x^(1/4*n)+c*g*x^(3/4*n)+c*h*xⁿ)/(a+c*xⁿ)^(3/2),x)

[Out] int(x^(-1+1/4*n)*(-a*h+c*f*x^(1/4*n)+c*g*x^(3/4*n)+c*h*xⁿ)/(a+c*xⁿ)^(3/2),x)

maxima [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{\left(c g x^{\frac{3}{4}n} + c f x^{\frac{1}{4}n} + c h x^n - a h \right) x^{\frac{1}{4}n-1}}{(c x^n + a)^{\frac{3}{2}}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate(x^(-1+1/4*n)*(-a*h+c*f*x^(1/4*n)+c*g*x^(3/4*n)+c*h*x^n)/(a+c*x^n)^(3/2),x, algorithm="maxima")

[Out] integrate((c*g*x^(3/4*n) + c*f*x^(1/4*n) + c*h*x^n - a*h)*x^(1/4*n - 1)/(c*x^n + a)^(3/2), x)

mupad [B] time = 2.56, size = 39, normalized size = 0.87

$$-\frac{2 \left(a g - c f x^{n/2} + 2 a h x^{n/4} \right)}{a n \sqrt{a + c x^n}}$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((x^(n/4 - 1)*(c*h*x^n - a*h + c*f*x^(n/4) + c*g*x^((3*n)/4)))/(a + c*x^n)^(3/2),x)

[Out] -(2*(a*g - c*f*x^(n/2) + 2*a*h*x^(n/4)))/(a*n*(a + c*x^n)^(1/2))

sympy [F(-1)] time = 0.00, size = 0, normalized size = 0.00

Timed out

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate(x**(-1+1/4*n)*(-a*h+c*f*x**(1/4*n)+c*g*x**(3/4*n)+c*h*x**n)/(a+c*x**n)**(3/2),x)

[Out] Timed out

$$3.13 \quad \int \frac{(dx)^{-1+\frac{n}{4}}(-ah+cfx^{n/4}+cgx^{3n/4}+chx^n)}{(a+cx^n)^{3/2}} dx$$

Optimal. Leaf size=65

$$-\frac{2x^{1-\frac{n}{4}}(dx)^{\frac{n-4}{4}}(ag+2ahx^{n/4}-cfx^{n/2})}{an\sqrt{a+cx^n}}$$

[Out] $-2*x^{(1-1/4*n)}*(d*x)^{(-1+1/4*n)}*(a*g+2*a*h*x^{(1/4*n)}-c*f*x^{(1/2*n)})/a/n/(a+c*x^n)^{(1/2)}$

Rubi [A] time = 0.16, antiderivative size = 65, normalized size of antiderivative = 1.00, number of steps used = 2, number of rules used = 2, integrand size = 54, $\frac{\text{number of rules}}{\text{integrand size}} = 0.037$, Rules used = {1817, 1816}

$$-\frac{2x^{1-\frac{n}{4}}(dx)^{\frac{n-4}{4}}(ag+2ahx^{n/4}-cfx^{n/2})}{an\sqrt{a+cx^n}}$$

Antiderivative was successfully verified.

[In] $\text{Int}[\frac{((d*x)^{-1+n/4})*(-(a*h)+c*f*x^{n/4}+c*g*x^{(3*n)/4}+c*h*x^n)}{(a+c*x^n)^{(3/2)}, x]$

[Out] $(-2*x^{(1-n/4)}*(d*x)^{((-4+n)/4)}*(a*g+2*a*h*x^{n/4}-c*f*x^{n/2}))/((a*n*\text{Sqrt}[a+c*x^n])$

Rule 1816

$\text{Int}[\frac{((x_)^{(m_)})*((e_) + (h_) * (x_)^{(n_)}) + (f_) * (x_)^{(q_)} + (g_) * (x_)^{(r_)})}{((a_) + (c_) * (x_)^{(n_)})^{(3/2)}, x_Symbol] := -\text{Simp}[\frac{(2*a*g + 4*a*h*x^{n/4} - 2*c*f*x^{n/2})}{(a*c*n*\text{Sqrt}[a+c*x^n]), x] /; \text{FreeQ}[\{a, c, e, f, g, h, m, n\}, x] \&\& \text{EqQ}[q, n/4] \&\& \text{EqQ}[r, (3*n)/4] \&\& \text{EqQ}[4*m - n + 4, 0] \&\& \text{EqQ}[c*e + a*h, 0]$

Rule 1817

$\text{Int}[\frac{(((d_)*(x_))^{(m_)})*((e_) + (h_) * (x_)^{(n_)}) + (f_) * (x_)^{(q_)} + (g_) * (x_)^{(r_)})}{((a_) + (c_) * (x_)^{(n_)})^{(3/2)}, x_Symbol] := \text{Dist}[\frac{(d*x)^m}{x^m}, \text{Int}[\frac{(x^m*(e + f*x^{n/4} + g*x^{(3*n)/4} + h*x^n))}{(a+c*x^n)^{(3/2)}, x], x] /; \text{FreeQ}[\{a, c, d, e, f, g, h, m, n\}, x] \&\& \text{EqQ}[4*m - n + 4, 0] \&\& \text{EqQ}[q, n/4] \&\& \text{EqQ}[r, (3*n)/4] \&\& \text{EqQ}[c*e + a*h, 0]$

Rubi steps

$$\int \frac{(dx)^{-1+\frac{n}{4}} (-ah + cfx^{n/4} + cgx^{3n/4} + chx^n)}{(a + cx^n)^{3/2}} dx = \left(x^{1-\frac{n}{4}} (dx)^{-1+\frac{n}{4}} \right) \int \frac{x^{-1+\frac{n}{4}} (-ah + cfx^{n/4} + cgx^{3n/4} + chx^n)}{(a + cx^n)^{3/2}} dx$$

$$= -\frac{2x^{1-\frac{n}{4}} (dx)^{\frac{1}{4}(-4+n)} (ag + 2ahx^{n/4} - cfx^{n/2})}{an\sqrt{a + cx^n}}$$

Mathematica [A] time = 0.14, size = 64, normalized size = 0.98

$$\frac{2x^{-n/4}(dx)^{n/4} (cfx^{n/2} - a(g + 2hx^{n/4}))}{adn\sqrt{a + cx^n}}$$

Antiderivative was successfully verified.

[In] Integrate[((d*x)^(-1 + n/4)*(-(a*h) + c*f*x^(n/4) + c*g*x^((3*n)/4) + c*h*x^n))/(a + c*x^n)^(3/2), x]

[Out] (2*(d*x)^(n/4)*(c*f*x^(n/2) - a*(g + 2*h*x^(n/4))))/(a*d*n*x^(n/4)*Sqrt[a + c*x^n])

fricas [A] time = 0.46, size = 69, normalized size = 1.06

$$\frac{2 \left(cd^{\frac{1}{4}n-1} fx^{\frac{1}{2}n} - 2ad^{\frac{1}{4}n-1} hx^{\frac{1}{4}n} - ad^{\frac{1}{4}n-1} g \right) \sqrt{cx^n + a}}{acnx^n + a^2n}$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((d*x)^(-1+1/4*n)*(-a*h+c*f*x^(1/4*n)+c*g*x^(3/4*n)+c*h*x^n)/(a+c*x^n)^(3/2), x, algorithm="fricas")

[Out] 2*(c*d^(1/4*n - 1)*f*x^(1/2*n) - 2*a*d^(1/4*n - 1)*h*x^(1/4*n) - a*d^(1/4*n - 1)*g)*sqrt(c*x^n + a)/(a*c*n*x^n + a^2*n)

giac [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{\left(cgx^{\frac{3}{4}n} + cfx^{\frac{1}{4}n} + chx^n - ah \right) (dx)^{\frac{1}{4}n-1}}{(cx^n + a)^{\frac{3}{2}}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((d*x)^(-1+1/4*n)*(-a*h+c*f*x^(1/4*n)+c*g*x^(3/4*n)+c*h*x^n)/(a+c*x^n)^(3/2), x, algorithm="giac")

[Out] integrate((c*g*x^(3/4*n) + c*f*x^(1/4*n) + c*h*x^n - a*h)*(d*x)^(1/4*n - 1) / (c*x^n + a)^(3/2), x)

maple [F] time = 0.09, size = 0, normalized size = 0.00

$$\int \frac{\left(c f x^{\frac{n}{4}} + c g x^{\frac{3n}{4}} + c h x^n - a h \right) (d x)^{\frac{n}{4}-1}}{(c x^n + a)^{\frac{3}{2}}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((d*x)^(1/4*n-1)*(c*f*x^(1/4*n)+c*g*x^(3/4*n)+c*h*x^n-a*h)/(c*x^n+a)^(3/2),x)

[Out] int((d*x)^(1/4*n-1)*(c*f*x^(1/4*n)+c*g*x^(3/4*n)+c*h*x^n-a*h)/(c*x^n+a)^(3/2),x)

maxima [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{\left(c g x^{\frac{3}{4}n} + c f x^{\frac{1}{4}n} + c h x^n - a h \right) (d x)^{\frac{1}{4}n-1}}{(c x^n + a)^{\frac{3}{2}}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((d*x)^(-1+1/4*n)*(-a*h+c*f*x^(1/4*n)+c*g*x^(3/4*n)+c*h*x^n)/(a+c*x^n)^(3/2),x, algorithm="maxima")

[Out] integrate((c*g*x^(3/4*n) + c*f*x^(1/4*n) + c*h*x^n - a*h)*(d*x)^(1/4*n - 1) / (c*x^n + a)^(3/2), x)

mupad [F] time = 0.00, size = -1, normalized size = -0.02

$$\int \frac{(d x)^{\frac{n}{4}-1} \left(c h x^n - a h + c f x^{n/4} + c g x^{\frac{3n}{4}} \right)}{(a + c x^n)^{3/2}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int(((d*x)^(n/4 - 1)*(c*h*x^n - a*h + c*f*x^(n/4) + c*g*x^((3*n)/4)))/(a + c*x^n)^(3/2),x)

[Out] int(((d*x)^(n/4 - 1)*(c*h*x^n - a*h + c*f*x^(n/4) + c*g*x^((3*n)/4)))/(a + c*x^n)^(3/2), x)

sympy [F(-1)] time = 0.00, size = 0, normalized size = 0.00

Timed out

Verification of antiderivative is not currently implemented for this CAS.

```
[In] integrate((d*x)**(-1+1/4*n)*(-a*h+c*f*x**(1/4*n)+c*g*x**(3/4*n)+c*h*x**n)/(a+c*x**n)**(3/2),x)
```

```
[Out] Timed out
```

$$3.14 \quad \int \frac{x^{-1+\frac{n}{2}}(-ah+cfx^{n/2}+cgx^{3n/2}+chx^{2n})}{(a+bx^n+cx^{2n})^{3/2}} dx$$

Optimal. Leaf size=75

$$\frac{2(hx^{n/2}(b^2-4ac)+c(bf-2ag)+cx^n(2cf-bg))}{n(b^2-4ac)\sqrt{a+bx^n+cx^{2n}}}$$

[Out] $-2*(c*(-2*a*g+b*f)+(-4*a*c+b^2)*h*x^{(1/2*n)}+c*(-b*g+2*c*f)*x^n)/(-4*a*c+b^2)/n/(a+b*x^n+c*x^{(2*n)})^{(1/2)}$

Rubi [A] time = 0.11, antiderivative size = 75, normalized size of antiderivative = 1.00, number of steps used = 1, number of rules used = 1, integrand size = 61, $\frac{\text{number of rules}}{\text{integrand size}} = 0.016$, Rules used = {1753}

$$\frac{2(hx^{n/2}(b^2-4ac)+c(bf-2ag)+cx^n(2cf-bg))}{n(b^2-4ac)\sqrt{a+bx^n+cx^{2n}}}$$

Antiderivative was successfully verified.

[In] $\text{Int}[(x^{(-1+n/2)}*(-(a*h)+c*f*x^{(n/2)}+c*g*x^{((3*n)/2)}+c*h*x^{(2*n)}))/(a+b*x^n+c*x^{(2*n)})^{(3/2)},x]$

[Out] $(-2*(c*(b*f-2*a*g)+(b^2-4*a*c)*h*x^{(n/2)}+c*(2*c*f-b*g)*x^n)/((b^2-4*a*c)*n*\text{Sqrt}[a+b*x^n+c*x^{(2*n)}])$

Rule 1753

$\text{Int}[(x^{(m_*)}*(e_)+(f_)*(x_)^{(q_)}+(g_)*(x_)^{(r_)}+(h_)*(x_)^{(s_)}))/(a_+(b_)*(x_)^{(n_)}+(c_)*(x_)^{(n2_)})^{(3/2)},x_Symbol] :> -\text{Simp}[(2*c*(b*f-2*a*g)+2*h*(b^2-4*a*c)*x^{(n/2)}+2*c*(2*c*f-b*g)*x^n)/(c*n*(b^2-4*a*c)*\text{Sqrt}[a+b*x^n+c*x^{(2*n)}]),x] /; \text{FreeQ}[\{a,b,c,e,f,g,h,m,n\},x] \&\& \text{EqQ}[n2,2*n] \&\& \text{EqQ}[q,n/2] \&\& \text{EqQ}[r,(3*n)/2] \&\& \text{EqQ}[s,2*n] \&\& \text{NeQ}[b^2-4*a*c,0] \&\& \text{EqQ}[2*m-n+2,0] \&\& \text{EqQ}[c*e+a*h,0]$

Rubi steps

$$\int \frac{x^{-1+\frac{n}{2}}(-ah+cfx^{n/2}+cgx^{3n/2}+chx^{2n})}{(a+bx^n+cx^{2n})^{3/2}} dx = -\frac{2(c(bf-2ag)+(b^2-4ac)hx^{n/2}+c(2cf-bg)x^n)}{(b^2-4ac)n\sqrt{a+bx^n+cx^{2n}}}$$

Mathematica [F] time = 0.00, size = 0, normalized size = 0.00

\$Aborted

Verification is Not applicable to the result.

[In] Integrate[(x^(-1 + n/2)*(-(a*h) + c*f*x^(n/2) + c*g*x^((3*n)/2) + c*h*x^(2*n)))/(a + b*x^n + c*x^(2*n))^(3/2), x]

[Out] \$Aborted

fricas [A] time = 0.75, size = 109, normalized size = 1.45

$$\frac{2 \left(bcf - 2acg + (b^2 - 4ac)hx^{\frac{1}{2}n} + (2c^2f - bcg)x^n \right) \sqrt{cx^{2n} + bx^n + a}}{(b^2c - 4ac^2)nx^{2n} + (b^3 - 4abc)nx^n + (ab^2 - 4a^2c)n}$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate(x^(-1+1/2*n)*(-a*h+c*f*x^(1/2*n)+c*g*x^(3/2*n)+c*h*x^(2*n))/(a+b*x^n+c*x^(2*n))^(3/2), x, algorithm="fricas")

[Out] -2*(b*c*f - 2*a*c*g + (b^2 - 4*a*c)*h*x^(1/2*n) + (2*c^2*f - b*c*g)*x^n)*sqrt(c*x^(2*n) + b*x^n + a)/((b^2*c - 4*a*c^2)*n*x^(2*n) + (b^3 - 4*a*b*c)*n*x^n + (a*b^2 - 4*a^2*c)*n)

giac [B] time = 4.72, size = 187, normalized size = 2.49

$$\frac{2 \left(\sqrt{x^n} \left(\frac{(2b^2c^2f - 8ac^3f - b^3cg + 4abc^2g)\sqrt{x^n}}{b^4 - 8ab^2c + 16a^2c^2} + \frac{b^4h - 8ab^2ch + 16a^2c^2h}{b^4 - 8ab^2c + 16a^2c^2} \right) + \frac{b^3cf - 4abc^2f - 2ab^2cg + 8a^2c^2g}{b^4 - 8ab^2c + 16a^2c^2} \right)}{\sqrt{cx^{2n} + bx^n + a}n}$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate(x^(-1+1/2*n)*(-a*h+c*f*x^(1/2*n)+c*g*x^(3/2*n)+c*h*x^(2*n))/(a+b*x^n+c*x^(2*n))^(3/2), x, algorithm="giac")

[Out] -2*(sqrt(x^n)*((2*b^2*c^2*f - 8*a*c^3*f - b^3*c*g + 4*a*b*c^2*g)*sqrt(x^n)/(b^4 - 8*a*b^2*c + 16*a^2*c^2) + (b^4*h - 8*a*b^2*c*h + 16*a^2*c^2*h)/(b^4 - 8*a*b^2*c + 16*a^2*c^2)) + (b^3*c*f - 4*a*b*c^2*f - 2*a*b^2*c*g + 8*a^2*c^2*g)/(b^4 - 8*a*b^2*c + 16*a^2*c^2))/(sqrt(c*x^(2*n) + b*x^n + a)*n)

maple [F] time = 0.03, size = 0, normalized size = 0.00

$$\int \frac{\left(cf x^{\frac{n}{2}} + cg x^{\frac{3n}{2}} + ch x^{2n} - ah \right) x^{\frac{n}{2}-1}}{\left(b x^n + c x^{2n} + a \right)^{\frac{3}{2}}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] `int(x^(1/2*n-1)*(-a*h+c*f*x^(1/2*n)+c*g*x^(3/2*n)+c*h*x^(2*n))/(b*x^n+c*x^(2*n)+a)^(3/2),x)`

[Out] `int(x^(1/2*n-1)*(-a*h+c*f*x^(1/2*n)+c*g*x^(3/2*n)+c*h*x^(2*n))/(b*x^n+c*x^(2*n)+a)^(3/2),x)`

maxima [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{\left(chx^{2n} + cgx^{\frac{3}{2}n} + cf x^{\frac{1}{2}n} - ah \right) x^{\frac{1}{2}n-1}}{\left(cx^{2n} + bx^n + a \right)^{\frac{3}{2}}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] `integrate(x^(-1+1/2*n)*(-a*h+c*f*x^(1/2*n)+c*g*x^(3/2*n)+c*h*x^(2*n))/(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="maxima")`

[Out] `integrate((c*h*x^(2*n) + c*g*x^(3/2*n) + c*f*x^(1/2*n) - a*h)*x^(1/2*n - 1)/(c*x^(2*n) + b*x^n + a)^(3/2), x)`

mupad [B] time = 2.45, size = 80, normalized size = 1.07

$$\frac{2b^2hx^{n/2} - 4acg + 2bcf + 4c^2fx^n - 8achx^{n/2} - 2bcgx^n}{(b^2n - 4acn)\sqrt{a + bx^n + cx^{2n}}}$$

Verification of antiderivative is not currently implemented for this CAS.

[In] `int((x^(n/2 - 1)*(c*f*x^(n/2) - a*h + c*g*x^((3*n)/2) + c*h*x^(2*n)))/(a + b*x^n + c*x^(2*n))^(3/2),x)`

[Out] `-(2*b^2*h*x^(n/2) - 4*a*c*g + 2*b*c*f + 4*c^2*f*x^n - 8*a*c*h*x^(n/2) - 2*b*c*g*x^n)/((b^2*n - 4*a*c*n)*(a + b*x^n + c*x^(2*n))^(1/2))`

sympy [F(-1)] time = 0.00, size = 0, normalized size = 0.00

Timed out

Verification of antiderivative is not currently implemented for this CAS.

[In] `integrate(x**(-1+1/2*n)*(-a*h+c*f*x**(1/2*n)+c*g*x**(3/2*n)+c*h*x**(2*n))/(a+b*x**n+c*x**(2*n))**(3/2),x)`

[Out] Timed out

$$3.15 \quad \int \frac{(dx)^{-1+\frac{n}{2}} (-ah+cfx^{n/2}+cgx^{3n/2}+chx^{2n})}{(a+bx^n+cx^{2n})^{3/2}} dx$$

Optimal. Leaf size=95

$$\frac{2x^{1-\frac{n}{2}}(dx)^{\frac{n-2}{2}} (hx^{n/2}(b^2-4ac) + c(bf-2ag) + cx^n(2cf-bg))}{n(b^2-4ac)\sqrt{a+bx^n+cx^{2n}}}$$

[Out] $-2*x^{(1-1/2*n)}*(d*x)^{(-1+1/2*n)}*(c*(-2*a*g+b*f)+(-4*a*c+b^2)*h*x^{(1/2*n)}+c*(-b*g+2*c*f)*x^n)/(-4*a*c+b^2)/n/(a+b*x^n+c*x^{(2*n)})^{(1/2)}$

Rubi [A] time = 0.22, antiderivative size = 95, normalized size of antiderivative = 1.00, number of steps used = 2, number of rules used = 2, integrand size = 63, $\frac{\text{number of rules}}{\text{integrand size}} = 0.032$, Rules used = {1754, 1753}

$$\frac{2x^{1-\frac{n}{2}}(dx)^{\frac{n-2}{2}} (hx^{n/2}(b^2-4ac) + c(bf-2ag) + cx^n(2cf-bg))}{n(b^2-4ac)\sqrt{a+bx^n+cx^{2n}}}$$

Antiderivative was successfully verified.

[In] $\text{Int}[\frac{((d*x)^{-1+n/2}*(-(a*h) + c*f*x^{n/2} + c*g*x^{(3*n)/2} + c*h*x^{(2*n)}))}{(a + b*x^n + c*x^{(2*n)})^{(3/2)}, x]$

[Out] $(-2*x^{(1-n/2)}*(d*x)^{((-2+n)/2)}*(c*(b*f-2*a*g) + (b^2-4*a*c)*h*x^{n/2} + c*(2*c*f-b*g)*x^n))/((b^2-4*a*c)*n*\text{Sqrt}[a + b*x^n + c*x^{(2*n)}])$

Rule 1753

$\text{Int}[\frac{((x_)^{(m_.)}*((e_) + (f_.)*(x_)^{(q_.)} + (g_.)*(x_)^{(r_.)} + (h_.)*(x_)^{(s_.)}))}{((a_) + (b_.)*(x_)^{(n_.)} + (c_.)*(x_)^{(n2_.)})^{(3/2)}, x_Symbol]} :> -\text{Simp}[\frac{2*c*(b*f-2*a*g) + 2*h*(b^2-4*a*c)*x^{n/2} + 2*c*(2*c*f-b*g)*x^n}{(c*n*(b^2-4*a*c)*\text{Sqrt}[a + b*x^n + c*x^{(2*n)}])}, x] /; \text{FreeQ}\{a, b, c, e, f, g, h, m, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[q, n/2] \&\& \text{EqQ}[r, (3*n)/2] \&\& \text{EqQ}[s, 2*n] \&\& \text{NeQ}[b^2-4*a*c, 0] \&\& \text{EqQ}[2*m-n+2, 0] \&\& \text{EqQ}[c*e+a*h, 0]$

Rule 1754

$\text{Int}[\frac{(((d_)*(x_))^{(m_.)}*((e_) + (f_.)*(x_)^{(q_.)} + (g_.)*(x_)^{(r_.)} + (h_.)*(x_)^{(s_.)}))}{((a_) + (b_.)*(x_)^{(n_.)} + (c_.)*(x_)^{(n2_.)})^{(3/2)}, x_Symbol]} :> \text{Dist}[\frac{(d*x)^m/x^m, \text{Int}[(x^m*(e + f*x^{n/2} + g*x^{(3*n)/2} + h*x^{(2*n)}))]}{(a + b*x^n + c*x^{(2*n)})^{(3/2)}, x], x] /; \text{FreeQ}\{a, b, c, d, e, f, g, h, m, n\}, x] \&\& \text{EqQ}[n2, 2*n] \&\& \text{EqQ}[q, n/2] \&\& \text{EqQ}[r, (3*n)/2] \&\& \text{EqQ}[s, 2*n] \&\&$

NeQ[b^2 - 4*a*c, 0] && EqQ[2*m - n + 2, 0] && EqQ[c*e + a*h, 0]

Rubi steps

$$\int \frac{(dx)^{-1+\frac{n}{2}} (-ah + cfx^{n/2} + cgx^{3n/2} + chx^{2n})}{(a + bx^n + cx^{2n})^{3/2}} dx = \left(x^{1-\frac{n}{2}}(dx)^{-1+\frac{n}{2}}\right) \int \frac{x^{-1+\frac{n}{2}} (-ah + cfx^{n/2} + cgx^{3n/2} + chx^{2n})}{(a + bx^n + cx^{2n})^{3/2}} dx$$

$$= -\frac{2x^{1-\frac{n}{2}}(dx)^{\frac{1}{2}(-2+n)} (c(bf - 2ag) + (b^2 - 4ac)hx^{n/2} + c(2cf - 2ag)x^{3n/2} + chx^{2n})}{(b^2 - 4ac)n\sqrt{a + bx^n + cx^{2n}}}$$

Mathematica [F] time = 0.00, size = 0, normalized size = 0.00

\$Aborted

Verification is Not applicable to the result.

[In] Integrate[((d*x)^(-1 + n/2)*(-(a*h) + c*f*x^(n/2) + c*g*x^((3*n)/2) + c*h*x^(2*n)))/(a + b*x^n + c*x^(2*n))^(3/2), x]

[Out] \$Aborted

fricas [A] time = 0.64, size = 132, normalized size = 1.39

$$\frac{2 \left((b^2 - 4ac) d^{\frac{1}{2}n-1} h x^{\frac{1}{2}n} + (2c^2f - bcg) d^{\frac{1}{2}n-1} x^n + (bcf - 2acg) d^{\frac{1}{2}n-1} \right) \sqrt{cx^{2n} + bx^n + a}}{(b^2c - 4ac^2)nx^{2n} + (b^3 - 4abc)nx^n + (ab^2 - 4a^2c)n}$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((d*x)^(-1+1/2*n)*(-a*h+c*f*x^(1/2*n)+c*g*x^(3/2*n)+c*h*x^(2*n))/(a+b*x^n+c*x^(2*n))^(3/2), x, algorithm="fricas")

[Out] -2*((b^2 - 4*a*c)*d^(1/2*n - 1)*h*x^(1/2*n) + (2*c^2*f - b*c*g)*d^(1/2*n - 1)*x^n + (b*c*f - 2*a*c*g)*d^(1/2*n - 1))*sqrt(c*x^(2*n) + b*x^n + a)/((b^2*c - 4*a*c^2)*n*x^(2*n) + (b^3 - 4*a*b*c)*n*x^n + (a*b^2 - 4*a^2*c)*n)

giac [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{(chx^{2n} + cgx^{\frac{3}{2}n} + cfx^{\frac{1}{2}n} - ah)(dx)^{\frac{1}{2}n-1}}{(cx^{2n} + bx^n + a)^{\frac{3}{2}}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((d*x)^(-1+1/2*n)*(-a*h+c*f*x^(1/2*n)+c*g*x^(3/2*n)+c*h*x^(2*n))/(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="giac")

[Out] integrate((c*h*x^(2*n) + c*g*x^(3/2*n) + c*f*x^(1/2*n) - a*h)*(d*x)^(1/2*n - 1)/(c*x^(2*n) + b*x^n + a)^(3/2), x)

maple [F] time = 0.02, size = 0, normalized size = 0.00

$$\int \frac{\left(c f x^{\frac{n}{2}} + c g x^{\frac{3n}{2}} + c h x^{2n} - a h \right) (d x)^{\frac{n}{2}-1}}{\left(b x^n + c x^{2n} + a \right)^{\frac{3}{2}}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((d*x)^(1/2*n-1)*(c*f*x^(1/2*n)+c*g*x^(3/2*n)+c*h*x^(2*n)-a*h)/(b*x^n+c*x^(2*n)+a)^(3/2),x)

[Out] int((d*x)^(1/2*n-1)*(c*f*x^(1/2*n)+c*g*x^(3/2*n)+c*h*x^(2*n)-a*h)/(b*x^n+c*x^(2*n)+a)^(3/2),x)

maxima [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{\left(c h x^{2n} + c g x^{\frac{3}{2}n} + c f x^{\frac{1}{2}n} - a h \right) (d x)^{\frac{1}{2}n-1}}{\left(c x^{2n} + b x^n + a \right)^{\frac{3}{2}}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((d*x)^(-1+1/2*n)*(-a*h+c*f*x^(1/2*n)+c*g*x^(3/2*n)+c*h*x^(2*n))/(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="maxima")

[Out] integrate((c*h*x^(2*n) + c*g*x^(3/2*n) + c*f*x^(1/2*n) - a*h)*(d*x)^(1/2*n - 1)/(c*x^(2*n) + b*x^n + a)^(3/2), x)

mupad [F] time = 0.00, size = -1, normalized size = -0.01

$$\int \frac{(d x)^{\frac{n}{2}-1} \left(c f x^{n/2} - a h + c g x^{\frac{3n}{2}} + c h x^{2n} \right)}{\left(a + b x^n + c x^{2n} \right)^{3/2}} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int(((d*x)^(n/2 - 1)*(c*f*x^(n/2) - a*h + c*g*x^((3*n)/2) + c*h*x^(2*n)))/(a + b*x^n + c*x^(2*n))^(3/2),x)

```
[Out] int(((d*x)^(n/2 - 1)*(c*f*x^(n/2) - a*h + c*g*x^((3*n)/2) + c*h*x^(2*n)))/(
a + b*x^n + c*x^(2*n))^(3/2), x)
```

```
sympy [F(-1)] time = 0.00, size = 0, normalized size = 0.00
```

Timed out

Verification of antiderivative is not currently implemented for this CAS.

```
[In] integrate((d*x)**(-1+1/2*n)*(-a*h+c*f*x**(1/2*n)+c*g*x**(3/2*n)+c*h*x**(2*n
))/((a+b*x**n+c*x**(2*n))**(3/2), x)
```

```
[Out] Timed out
```


$$3.16 \quad \int (gx)^m (a + bx^n + cx^{2n})^p (a(1+m) + b(1+m+n+np)x^n + c(1+m+2n(1+p))x^{2n}) dx = \frac{(gx)^{1+m} (a + bx^n)^{p+1}}{g}$$

Optimal. Leaf size=29

$$\frac{(gx)^{m+1} (a + bx^n + cx^{2n})^{p+1}}{g}$$

[Out] (g*x)^(1+m)*(a+b*x^n+c*x^(2*n))^(1+p)/g

Rubi [A] time = 0.07, antiderivative size = 29, normalized size of antiderivative = 1.00, number of steps used = 1, number of rules used = 1, integrand size = 56, $\frac{\text{number of rules}}{\text{integrand size}} = 0.018$, Rules used = {1747}

$$\frac{(gx)^{m+1} (a + bx^n + cx^{2n})^{p+1}}{g}$$

Antiderivative was successfully verified.

[In] Int[(g*x)^m*(a + b*x^n + c*x^(2*n))^p*(a*(1 + m) + b*(1 + m + n + n*p)*x^n + c*(1 + m + 2*n*(1 + p))*x^(2*n)),x]

[Out] ((g*x)^(1 + m)*(a + b*x^n + c*x^(2*n))^(1 + p))/g

Rule 1747

Int[((g_.)*(x_))^(m_.)*((a_.) + (b_.)*(x_)^(n_.) + (c_.)*(x_)^(n2_.))^(p_.)*((d_.) + (e_.)*(x_)^(n_.) + (f_.)*(x_)^(n2_.)), x_Symbol] :> Simp[(d*(g*x)^(m + 1)*(a + b*x^n + c*x^(2*n))^(p + 1))/(a*g*(m + 1)), x] /; FreeQ[{a, b, c, d, e, f, g, m, n, p}, x] && EqQ[n2, 2*n] && EqQ[a*e*(m + 1) - b*d*(m + n*(p + 1) + 1), 0] && EqQ[a*f*(m + 1) - c*d*(m + 2*n*(p + 1) + 1), 0] && NeQ[m, -1]

Rubi steps

$$\int (gx)^m (a + bx^n + cx^{2n})^p (a(1+m) + b(1+m+n+np)x^n + c(1+m+2n(1+p))x^{2n}) dx = \frac{(gx)^{1+m} (a + bx^n)^{p+1}}{g}$$

Mathematica [A] time = 0.43, size = 24, normalized size = 0.83

$$x(gx)^m (a + x^n (b + cx^n))^{p+1}$$

Antiderivative was successfully verified.

[In] Integrate[(g*x)^m*(a + b*x^n + c*x^(2*n))^p*(a*(1 + m) + b*(1 + m + n + n*p)*x^n + c*(1 + m + 2*n*(1 + p))*x^(2*n)), x]

[Out] x*(g*x)^m*(a + x^n*(b + c*x^n))^(1 + p)

fricas [B] time = 0.53, size = 65, normalized size = 2.24

$$\left(cxx^{2n} e^{(m \log(g) + m \log(x))} + bxx^n e^{(m \log(g) + m \log(x))} + axe^{(m \log(g) + m \log(x))} \right) (cx^{2n} + bx^n + a)^p$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((g*x)^m*(a+b*x^n+c*x^(2*n))^p*(a*(1+m)+b*(n*p+m+n+1)*x^n+c*(1+m+2*n*(1+p))*x^(2*n)), x, algorithm="fricas")

[Out] (c*x*x^(2*n)*e^(m*log(g) + m*log(x)) + b*x*x^n*e^(m*log(g) + m*log(x)) + a*x*e^(m*log(g) + m*log(x)))*(c*x^(2*n) + b*x^n + a)^p

giac [B] time = 1.55, size = 96, normalized size = 3.31

$$(cx^{2n} + bx^n + a)^p cxx^{2n} e^{(m \log(g) + m \log(x))} + (cx^{2n} + bx^n + a)^p bxx^n e^{(m \log(g) + m \log(x))} + (cx^{2n} + bx^n + a)^p axe^{(m \log(g) + m \log(x))}$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((g*x)^m*(a+b*x^n+c*x^(2*n))^p*(a*(1+m)+b*(n*p+m+n+1)*x^n+c*(1+m+2*n*(1+p))*x^(2*n)), x, algorithm="giac")

[Out] (c*x^(2*n) + b*x^n + a)^p*c*x*x^(2*n)*e^(m*log(g) + m*log(x)) + (c*x^(2*n) + b*x^n + a)^p*b*x*x^n*e^(m*log(g) + m*log(x)) + (c*x^(2*n) + b*x^n + a)^p*a*x*e^(m*log(g) + m*log(x))

maple [F] time = 0.06, size = 0, normalized size = 0.00

$$\int \left((pn + m + n + 1) b x^n + (m + 2(p + 1)n + 1) c x^{2n} + (m + 1) a \right) (gx)^m (b x^n + c x^{2n} + a)^p dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((g*x)^m*(b*x^n+c*x^(2*n)+a)^p*(a*(m+1)+b*(n*p+m+n+1)*x^n+c*(1+m+2*(p+1)*n)*x^(2*n)), x)

[Out] int((g*x)^m*(b*x^n+c*x^(2*n)+a)^p*(a*(m+1)+b*(n*p+m+n+1)*x^n+c*(1+m+2*(p+1)*n)*x^(2*n)), x)

maxima [B] time = 1.18, size = 60, normalized size = 2.07

$$\left(ag^m xx^m + cg^m xe^{(m \log(x) + 2n \log(x))} + bg^m xe^{(m \log(x) + n \log(x))} \right) (cx^{2n} + bx^n + a)^p$$

Verification of antiderivative is not currently implemented for this CAS.

```
[In] integrate((g*x)^m*(a+b*x^n+c*x^(2*n))^p*(a*(1+m)+b*(n*p+m+n+1)*x^n+c*(1+m+2*n*(1+p))*x^(2*n)),x, algorithm="maxima")
```

```
[Out] (a*g^m*x*x^m + c*g^m*x*e^(m*log(x) + 2*n*log(x)) + b*g^m*x*e^(m*log(x) + n*log(x)))*(c*x^(2*n) + b*x^n + a)^p
```

mupad [B] time = 2.25, size = 50, normalized size = 1.72

$$\left(a x (g x)^m + b x x^n (g x)^m + c x x^{2n} (g x)^m \right) (a + b x^n + c x^{2n})^p$$

Verification of antiderivative is not currently implemented for this CAS.

```
[In] int((g*x)^m*(a + b*x^n + c*x^(2*n))^p*(a*(m + 1) + b*x^n*(m + n + n*p + 1) + c*x^(2*n)*(m + 2*n*(p + 1) + 1)),x)
```

```
[Out] (a*x*(g*x)^m + b*x*x^n*(g*x)^m + c*x*x^(2*n)*(g*x)^m)*(a + b*x^n + c*x^(2*n))^p
```

sympy [F(-1)] time = 0.00, size = 0, normalized size = 0.00

Timed out

Verification of antiderivative is not currently implemented for this CAS.

```
[In] integrate((g*x)**m*(a+b*x**n+c*x**(2*n))**p*(a*(1+m)+b*(n*p+m+n+1)*x**n+c*(1+m+2*n*(1+p))*x**(2*n)),x)
```

```
[Out] Timed out
```

$$3.17 \quad \int \frac{A+Bx^n+Cx^{2n}+Dx^{3n}}{(a+bx^n+cx^{2n})^2} dx$$

Optimal. Leaf size=494

$$\frac{x \left(x^n (bc(aC + Ac) - ab^2D - 2ac(Bc - aD)) + Ac(b^2 - 2ac) - a(abD - 2acC + bBc) \right)}{acn(b^2 - 4ac)(a + bx^n + cx^{2n})} + \frac{x {}_2F_1 \left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b - \sqrt{b^2 - 4ac}} \right)}{acn(b^2 - 4ac)(a + bx^n + cx^{2n})}$$

[Out] $x*(A*c*(-2*a*c+b^2)-a*(B*b*c-2*C*a*c+D*a*b)+(b*c*(A*c+C*a)-a*b^2*D-2*a*c*(B*c-D*a))*x^n)/a/c/(-4*a*c+b^2)/n/(a+b*x^n+c*x^(2*n))+x*\text{hypergeom}([1, 1/n], [1+1/n], -2*c*x^n/(b-(-4*a*c+b^2)^(1/2)))*(a*b^2*D-b*c*(A*c+C*a)*(1-n)+2*a*c*(B*c*(1-n)-a*D*(1+n))+(A*c^2*(4*a*c*(1-2*n)-b^2*(1-n))-a*(4*a*c^2*C+b^3*D-b^2*c*C*(1-n)-2*b*c*(B*c*n+a*D*(2+n))))/(-4*a*c+b^2)^(1/2)/a/c/(-4*a*c+b^2)/n/(b-(-4*a*c+b^2)^(1/2))+x*\text{hypergeom}([1, 1/n], [1+1/n], -2*c*x^n/(b+(-4*a*c+b^2)^(1/2)))*(a*b^2*D-b*c*(A*c+C*a)*(1-n)+2*a*c*(B*c*(1-n)-a*D*(1+n))+(-A*c^2*(4*a*c*(1-2*n)-b^2*(1-n))+a*(4*a*c^2*C+b^3*D-b^2*c*C*(1-n)-2*b*c*(B*c*n+a*D*(2+n))))/(-4*a*c+b^2)^(1/2)/a/c/(-4*a*c+b^2)/n/(b+(-4*a*c+b^2)^(1/2))$

Rubi [A] time = 1.58, antiderivative size = 494, normalized size of antiderivative = 1.00, number of steps used = 4, number of rules used = 3, integrand size = 38, $\frac{\text{number of rules}}{\text{integrand size}} = 0.079$, Rules used = {1794, 1422, 245}

$$\frac{x {}_2F_1 \left(1, \frac{1}{n}; 1 + \frac{1}{n}; -\frac{2cx^n}{b - \sqrt{b^2 - 4ac}} \right) \left(\frac{Ac^2(4ac(1-2n)-b^2(1-n))-a(-2bc(aD(n+2)+Bcn)+4ac^2C-b^2cC(1-n)+b^3D)}{\sqrt{b^2-4ac}} - bc(1-n)(aC + Ac) + \right)}{acn(b^2 - 4ac)(b - \sqrt{b^2 - 4ac})}$$

Antiderivative was successfully verified.

[In] Int[(A + B*x^n + C*x^(2*n) + D*x^(3*n))/(a + b*x^n + c*x^(2*n))^2, x]

[Out] $(x*(A*c*(b^2 - 2*a*c) - a*(b*B*c - 2*a*c*C + a*b*D) + (b*c*(A*c + a*C) - a*b^2*D - 2*a*c*(B*c - a*D))*x^n)/(a*c*(b^2 - 4*a*c)*n*(a + b*x^n + c*x^(2*n))) + ((a*b^2*D - b*c*(A*c + a*C)*(1 - n) + 2*a*c*(B*c*(1 - n) - a*D*(1 + n)) + (A*c^2*(4*a*c*(1 - 2*n) - b^2*(1 - n)) - a*(4*a*c^2*C + b^3*D - b^2*c*C*(1 - n) - 2*b*c*(B*c*n + a*D*(2 + n))))/Sqrt[b^2 - 4*a*c])*x*\text{Hypergeometric2F1}[1, n^(-1), 1 + n^(-1), (-2*c*x^n)/(b - Sqrt[b^2 - 4*a*c])]/(a*c*(b^2 - 4*a*c)*(b - Sqrt[b^2 - 4*a*c])*n) + ((a*b^2*D - b*c*(A*c + a*C)*(1 - n) + 2*a*c*(B*c*(1 - n) - a*D*(1 + n)) - (A*c^2*(4*a*c*(1 - 2*n) - b^2*(1 - n)) - a*(4*a*c^2*C + b^3*D - b^2*c*C*(1 - n) - 2*b*c*(B*c*n + a*D*(2 + n))))/Sqrt[b^2 - 4*a*c])*x*\text{Hypergeometric2F1}[1, n^(-1), 1 + n^(-1), (-2*c*x^n)/(b + Sqrt[b^2 - 4*a*c])]/(a*c*(b^2 - 4*a*c)*(b + Sqrt[b^2 - 4*a*c])*n)$

Rule 245

```
Int[((a_) + (b_)*(x_)^(n_))^(p_), x_Symbol] := Simp[a^p*x*Hypergeometric2F
1[-p, 1/n, 1/n + 1, -((b*x^n)/a)], x] /; FreeQ[{a, b, n, p}, x] && !IGtQ[p
, 0] && !IntegerQ[1/n] && !ILtQ[Simplify[1/n + p], 0] && (IntegerQ[p] ||
GtQ[a, 0])
```

Rule 1422

```
Int[((d_) + (e_)*(x_)^(n_))/((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_)), x
_Symbol] := With[{q = Rt[b^2 - 4*a*c, 2]}, Dist[e/2 + (2*c*d - b*e)/(2*q),
Int[1/(b/2 - q/2 + c*x^n), x], x] + Dist[e/2 - (2*c*d - b*e)/(2*q), Int[1/(
b/2 + q/2 + c*x^n), x], x]] /; FreeQ[{a, b, c, d, e, n}, x] && EqQ[n2, 2*n]
&& NeQ[b^2 - 4*a*c, 0] && NeQ[c*d^2 - b*d*e + a*e^2, 0] && (PosQ[b^2 - 4*a
*c] || !IGtQ[n/2, 0])
```

Rule 1794

```
Int[(P3_)*((a_) + (b_)*(x_)^(n_) + (c_)*(x_)^(n2_))^(p_), x_Symbol] := Wi
th[{d = Coeff[P3, x^n, 0], e = Coeff[P3, x^n, 1], f = Coeff[P3, x^n, 2], g
= Coeff[P3, x^n, 3]}, -Simp[(x*(b^2*c*d - 2*a*c*(c*d - a*f) - a*b*(c*e + a*
g) + (b*c*(c*d + a*f) - a*b^2*g - 2*a*c*(c*e - a*g))*x^n)*(a + b*x^n + c*x^
(2*n))^(p + 1))/(a*c*n*(p + 1)*(b^2 - 4*a*c)), x] - Dist[1/(a*c*n*(p + 1)*(
b^2 - 4*a*c), Int[(a + b*x^n + c*x^(2*n))^(p + 1)*Simp[a*b*(c*e + a*g) - b
^2*c*d*(n + n*p + 1) - 2*a*c*(a*f - c*d*(2*n*(p + 1) + 1)) + (a*b^2*g*(n*(p
+ 2) + 1) - b*c*(c*d + a*f)*(n*(2*p + 3) + 1) - 2*a*c*(a*g*(n + 1) - c*e*(
n*(2*p + 3) + 1)))*x^n, x], x], x]] /; FreeQ[{a, b, c, n}, x] && EqQ[n2, 2*
n] && PolyQ[P3, x^n, 3] && NeQ[b^2 - 4*a*c, 0] && ILtQ[p, -1]
```

Rubi steps

$$\int \frac{A + Bx^n + Cx^{2n} + Dx^{3n}}{(a + bx^n + cx^{2n})^2} dx = \frac{x \left(Ac(b^2 - 2ac) - a(bBc - 2acC + abD) + (bc(Ac + aC) - ab^2D - 2ac(Bc - aC)) \right)}{ac(b^2 - 4ac)n(a + bx^n + cx^{2n})}$$

$$= \frac{x \left(Ac(b^2 - 2ac) - a(bBc - 2acC + abD) + (bc(Ac + aC) - ab^2D - 2ac(Bc - aC)) \right)}{ac(b^2 - 4ac)n(a + bx^n + cx^{2n})}$$

$$= \frac{x \left(Ac(b^2 - 2ac) - a(bBc - 2acC + abD) + (bc(Ac + aC) - ab^2D - 2ac(Bc - aC)) \right)}{ac(b^2 - 4ac)n(a + bx^n + cx^{2n})}$$

Mathematica [B] time = 6.89, size = 5439, normalized size = 11.01

Result too large to show

Antiderivative was successfully verified.

[In] Integrate[(A + B*x^n + C*x^(2*n) + D*x^(3*n))/(a + b*x^n + c*x^(2*n))^2,x]

[Out] Result too large to show

fricas [F] time = 0.71, size = 0, normalized size = 0.00

$$\text{integral}\left(\frac{Dx^{3n} + Cx^{2n} + Bx^n + A}{c^2x^{4n} + b^2x^{2n} + 2abx^n + a^2 + 2(bc x^n + ac)x^{2n}}, x\right)$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((A+B*x^n+C*x^(2*n)+D*x^(3*n))/(a+b*x^n+c*x^(2*n))^2,x, algorithm="fricas")

[Out] integral((D*x^(3*n) + C*x^(2*n) + B*x^n + A)/(c^2*x^(4*n) + b^2*x^(2*n) + 2*a*b*x^n + a^2 + 2*(b*c*x^n + a*c)*x^(2*n)), x)

giac [F] time = 0.00, size = 0, normalized size = 0.00

$$\int \frac{Dx^{3n} + Cx^{2n} + Bx^n + A}{(cx^{2n} + bx^n + a)^2} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((A+B*x^n+C*x^(2*n)+D*x^(3*n))/(a+b*x^n+c*x^(2*n))^2,x, algorithm="giac")

[Out] integrate((D*x^(3*n) + C*x^(2*n) + B*x^n + A)/(c*x^(2*n) + b*x^n + a)^2, x)

maple [F] time = 0.03, size = 0, normalized size = 0.00

$$\int \frac{Bx^n + Cx^{2n} + Dx^{3n} + A}{(bx^n + cx^{2n} + a)^2} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((A+B*x^n+C*x^(2*n)+D*x^(3*n))/(b*x^n+c*x^(2*n)+a)^2,x)

[Out] int((A+B*x^n+C*x^(2*n)+D*x^(3*n))/(b*x^n+c*x^(2*n)+a)^2,x)

maxima [F] time = 0.00, size = 0, normalized size = 0.00

$$\frac{(Cabc - 2Bac^2 + Abc^2 - (ab^2 - 2a^2c)D)xx^n - (Da^2b - 2Ca^2c + Babc - (b^2c - 2ac^2)A)x}{a^2b^2cn - 4a^3c^2n + (ab^2c^2n - 4a^2c^3n)x^{2n} + (ab^3cn - 4a^2bc^2n)x^n} \int -\frac{Da^2b - 2Ca^2c}{a^2b^2cn - 4a^3c^2n + (ab^2c^2n - 4a^2c^3n)x^{2n} + (ab^3cn - 4a^2bc^2n)x^n} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((A+B*x^n+C*x^(2*n)+D*x^(3*n))/(a+b*x^n+c*x^(2*n))^2,x, algorithm="maxima")

[Out] ((C*a*b*c - 2*B*a*c^2 + A*b*c^2 - (a*b^2 - 2*a^2*c)*D)*x*x^n - (D*a^2*b - 2*C*a^2*c + B*a*b*c - (b^2*c - 2*a*c^2)*A)*x)/(a^2*b^2*c*n - 4*a^3*c^2*n + (a*b^2*c^2*n - 4*a^2*c^3*n)*x^(2*n) + (a*b^3*c*n - 4*a^2*b*c^2*n)*x^n) - integrate(-(D*a^2*b - 2*C*a^2*c + B*a*b*c - (2*a*c^2*(2*n - 1) - b^2*c*(n - 1))*A + (C*a*b*c*(n - 1) - 2*B*a*c^2*(n - 1) + A*b*c^2*(n - 1) - (2*a^2*c*(n + 1) - a*b^2)*D)*x^n)/(a^2*b^2*c*n - 4*a^3*c^2*n + (a*b^2*c^2*n - 4*a^2*c^3*n)*x^(2*n) + (a*b^3*c*n - 4*a^2*b*c^2*n)*x^n), x)

mupad [F] time = 0.00, size = -1, normalized size = -0.00

$$\int \frac{A + Cx^{2n} + x^{3n}D + Bx^n}{(a + bx^n + cx^{2n})^2} dx$$

Verification of antiderivative is not currently implemented for this CAS.

[In] int((A + C*x^(2*n) + x^(3*n)*D + B*x^n)/(a + b*x^n + c*x^(2*n))^2,x)

[Out] int((A + C*x^(2*n) + x^(3*n)*D + B*x^n)/(a + b*x^n + c*x^(2*n))^2, x)

sympy [F(-1)] time = 0.00, size = 0, normalized size = 0.00

Timed out

Verification of antiderivative is not currently implemented for this CAS.

[In] integrate((A+B*x**n+C*x**(2*n)+D*x**(3*n))/(a+b*x**n+c*x**(2*n))**2,x)

[Out] Timed out

Chapter 4

Listing of Grading functions

The following are the current version of the grading functions used for grading the quality of the antiderivative with reference to the optimal antiderivative included in the test suite.

There is a version for Maple and for Mathematica/Rubi. There is a version for grading Sympy and version for use with Sagemath.

The following are links to the current source code.

The following are the listings of source code of the grading functions.

4.0.1 Mathematica and Rubi grading function

```
(* Original version thanks to Albert Rich emailed on 03/21/2017 *)
(* ::Package:: *)

(* ::Subsection:: *)
(*GradeAntiderivative[result,optimal]*)

(* ::Text:: *)
(*If result and optimal are mathematical expressions, *)
(*      GradeAntiderivative[result,optimal] returns*)
(* "F" if the result fails to integrate an expression that*)
(*      is integrable*)
(* "C" if result involves higher level functions than necessary*)
(* "B" if result is more than twice the size of the optimal*)
(*      antiderivative*)
(* "A" if result can be considered optimal*)

GradeAntiderivative[result_,optimal_] :=
  If[ExpnType[result]<=ExpnType[optimal],
```

```

If[FreeQ[result,Complex] || Not[FreeQ[optimal,Complex]],
  If[LeafCount[result]<=2*LeafCount[optimal],
    "A",
    "B"],
  "C"],
If[FreeQ[result,Integrate] && FreeQ[result,Int],
  "C",
"F"]]

```

```
(* ::Text:: *)
```

```
(*The following summarizes the type number assigned an *)
```

```
(*expression based on the functions it involves*)
```

```
(*1 = rational function*)
```

```
(*2 = algebraic function*)
```

```
(*3 = elementary function*)
```

```
(*4 = special function*)
```

```
(*5 = hyperpergeometric function*)
```

```
(*6 = appell function*)
```

```
(*7 = rootsum function*)
```

```
(*8 = integrate function*)
```

```
(*9 = unknown function*)
```

```
ExpnType[expn_] :=
```

```
  If[AtomQ[expn],
```

```
    1,
```

```
  If[ListQ[expn],
```

```
    Max[Map[ExpnType,expn]],
```

```
  If[Head[expn]===Power,
```

```
    If[IntegerQ[expn[[2]]],
```

```
      ExpnType[expn[[1]],
```

```
    If[Head[expn[[2]]]===Rational,
```

```
      If[IntegerQ[expn[[1]]] || Head[expn[[1]]]===Rational,
```

```
        1,
```

```
        Max[ExpnType[expn[[1]],2]],
```

```
      Max[ExpnType[expn[[1]],ExpnType[expn[[2]],3]]],
```

```
  If[Head[expn]===Plus || Head[expn]===Times,
```

```
    Max[ExpnType[First[expn],ExpnType[Rest[expn]]],
```

```
  If[ElementaryFunctionQ[Head[expn]],
```

```
    Max[3,ExpnType[expn[[1]]],
```

```
  If[SpecialFunctionQ[Head[expn]],
```

```
    Apply[Max,Append[Map[ExpnType,Apply[List,expn]],4]],
```

```
  If[HypergeometricFunctionQ[Head[expn]],
```

```
    Apply[Max,Append[Map[ExpnType,Apply[List,expn]],5]],
```

```
  If[AppellFunctionQ[Head[expn]],
```

```
    Apply[Max,Append[Map[ExpnType,Apply[List,expn]],6]],
```

```

If[Head[expn]===RootSum,
  Apply[Max,Append[Map[ExpnType,Apply[List,expn]],7]],
If[Head[expn]===Integrate || Head[expn]===Int,
  Apply[Max,Append[Map[ExpnType,Apply[List,expn]],8]],
9]]]]]]]]]]

ElementaryFunctionQ[func_] :=
MemberQ[{
  Exp,Log,
  Sin,Cos,Tan,Cot,Sec,Csc,
  ArcSin,ArcCos,ArcTan,ArcCot,ArcSec,ArcCsc,
  Sinh,Cosh,Tanh,Coth,Sech,Csch,
  ArcSinh,ArcCosh,ArcTanh,ArcCoth,ArcSech,ArcCsch
},func]

SpecialFunctionQ[func_] :=
MemberQ[{
  Erf, Erfc, Erfi,
  FresnelS, FresnelC,
  ExpIntegralE, ExpIntegralEi, LogIntegral,
  SinIntegral, CosIntegral, SinhIntegral, CoshIntegral,
  Gamma, LogGamma, PolyGamma,
  Zeta, PolyLog, ProductLog,
  EllipticF, EllipticE, EllipticPi
},func]

HypergeometricFunctionQ[func_] :=
MemberQ[{Hypergeometric1F1,Hypergeometric2F1,HypergeometricPFQ},func]

AppellFunctionQ[func_] :=
MemberQ[{AppellF1},func]

```

4.0.2 Maple grading function

```

# File: GradeAntiderivative.mpl
# Original version thanks to Albert Rich emailed on 03/21/2017

#Nasser 03/22/2017 Use Maple leaf count instead since buildin
#Nasser 03/23/2017 missing 'ln' for ElementaryFunctionQ added
#Nasser 03/24/2017 corrected the check for complex result
#Nasser 10/27/2017 check for leafsize and do not call ExpnType()
#
# if leaf size is "too large". Set at 500,000

```

```

#Nasser 12/22/2019 Added debug flag, added 'dilog' to special functions
# see problem 156, file Apostol_Problems

GradeAntiderivative := proc(result,optimal)
local leaf_count_result, leaf_count_optimal,ExpnType_result,ExpnType_optimal,
    debug:=false;

    leaf_count_result:=leafcount(result);
    #do NOT call ExpnType() if leaf size is too large. Recursion problem
    if leaf_count_result > 500000 then
        return "B";
    fi;

    leaf_count_optimal:=leafcount(optimal);

    ExpnType_result:=ExpnType(result);
    ExpnType_optimal:=ExpnType(optimal);

    if debug then
        print("ExpnType_result",ExpnType_result," ExpnType_optimal=",
            ExpnType_optimal);
    fi;

# If result and optimal are mathematical expressions,
# GradeAntiderivative[result,optimal] returns
# "F" if the result fails to integrate an expression that
# is integrable
# "C" if result involves higher level functions than necessary
# "B" if result is more than twice the size of the optimal
# antiderivative
# "A" if result can be considered optimal

#This check below actually is not needed, since I only
#call this grading only for passed integrals. i.e. I check
#for "F" before calling this. But no harm of keeping it here.
#just in case.

if not type(result,freeof('int')) then
    return "F";
end if;

if ExpnType_result<=ExpnType_optimal then
    if debug then
        print("ExpnType_result<=ExpnType_optimal");
    fi;

```

```

if is_contains_complex(result) then
  if is_contains_complex(optimal) then
    if debug then
      print("both result and optimal complex");
    fi;
    #both result and optimal complex
    if leaf_count_result<=2*leaf_count_optimal then
      return "A";
    else
      return "B";
    end if
  else #result contains complex but optimal is not
    if debug then
      print("result contains complex but optimal is not");
    fi;
    return "C";
  end if
else # result do not contain complex
  # this assumes optimal do not as well
  if debug then
    print("result do not contain complex, this assumes optimal do not
as well");
  fi;
  if leaf_count_result<=2*leaf_count_optimal then
    if debug then
      print("leaf_count_result<=2*leaf_count_optimal");
    fi;
    return "A";
  else
    if debug then
      print("leaf_count_result>2*leaf_count_optimal");
    fi;
    return "B";
  end if
end if
else #ExpnType(result) > ExpnType(optimal)
  if debug then
    print("ExpnType(result) > ExpnType(optimal)");
  fi;
  return "C";
end if

end proc:

#
# is_contains_complex(result)
# takes expressions and returns true if it contains "I" else false

```

```

#
#Nasser 032417
is_contains_complex:= proc(expression)
  return (has(expression,I));
end proc:

# The following summarizes the type number assigned an expression
# based on the functions it involves
# 1 = rational function
# 2 = algebraic function
# 3 = elementary function
# 4 = special function
# 5 = hyperpergeometric function
# 6 = appell function
# 7 = rootsum function
# 8 = integrate function
# 9 = unknown function

ExpnType := proc(expn)
  if type(expn,'atomic') then
    1
  elif type(expn,'list') then
    apply(max,map(ExpnType,expn))
  elif type(expn,'sqrt') then
    if type(op(1,expn),'rational') then
      1
    else
      max(2,ExpnType(op(1,expn)))
    end if
  elif type(expn,'^^') then
    if type(op(2,expn),'integer') then
      ExpnType(op(1,expn))
    elif type(op(2,expn),'rational') then
      if type(op(1,expn),'rational') then
        1
      else
        max(2,ExpnType(op(1,expn)))
      end if
    else
      max(3,ExpnType(op(1,expn)),ExpnType(op(2,expn)))
    end if
  elif type(expn,'`+`') or type(expn,'`*`') then
    max(ExpnType(op(1,expn)),max(ExpnType(rest(expn))))
  elif ElementaryFunctionQ(op(0,expn)) then
    max(3,ExpnType(op(1,expn)))
  elif SpecialFunctionQ(op(0,expn)) then
    max(4,apply(max,map(ExpnType,[op(expn)])))
  end if
end proc:

```

```

elif HypergeometricFunctionQ(op(0,expn)) then
  max(5,apply(max,map(ExpnType,[op(expn)])))
elif AppellFunctionQ(op(0,expn)) then
  max(6,apply(max,map(ExpnType,[op(expn)])))
elif op(0,expn)='int' then
  max(8,apply(max,map(ExpnType,[op(expn)]))) else
9
end if
end proc:

ElementaryFunctionQ := proc(func)
  member(func,[
    exp,log,ln,
    sin,cos,tan,cot,sec,csc,
    arcsin,arccos,arctan,arccot,arcsec,arccsc,
    sinh,cosh,tanh,coth,sech,csch,
    arcsinh,arccosh,arctanh,arccoth,arcsech,arccsch])
end proc:

SpecialFunctionQ := proc(func)
  member(func,[
    erf,erfc,erfi,
    FresnelS,FresnelC,
    Ei,Ei,Li,Si,Ci,Shi,Chi,
    GAMMA,lnGAMMA,Psi,Zeta,polylog,dilog,LambertW,
    EllipticF,EllipticE,EllipticPi])
end proc:

HypergeometricFunctionQ := proc(func)
  member(func,[Hypergeometric1F1,hypergeom,HypergeometricPFQ])
end proc:

AppellFunctionQ := proc(func)
  member(func,[AppellF1])
end proc:

# u is a sum or product. rest(u) returns all but the
# first term or factor of u.
rest := proc(u) local v;
  if nops(u)=2 then
    op(2,u)
  else
    apply(op(0,u),op(2..nops(u),u))
  end if
end proc:

```

```
#leafcount(u) returns the number of nodes in u.
#Nasser 3/23/17 Replaced by build-in leafCount from package in Maple
leafcount := proc(u)
  MmaTranslator[Mma][LeafCount](u);
end proc:
```

4.0.3 Sympy grading function

```
#Dec 24, 2019. Nasser M. Abbasi:
#           Port of original Maple grading function by
#           Albert Rich to use with Sympy/Python
#Dec 27, 2019 Nasser. Added `RootSum`. See problem 177, Timofeev file
#           added 'exp_polar'
from sympy import *

def leaf_count(expr):
    #sympy do not have leaf count function. This is approximation
    return round(1.7*count_ops(expr))

def is_sqrt(expr):
    if isinstance(expr,Pow):
        if expr.args[1] == Rational(1,2):
            return True
        else:
            return False
    else:
        return False

def is_elementary_function(func):
    return func in [exp,log,ln,sin,cos,tan,cot,sec,csc,
        asin,acos,atan,acot,asec,acsc,sinh,cosh,tanh,coth,sech,csch,
        asinh,acosh,atanh,acoth,asech,acsch
        ]

def is_special_function(func):
    return func in [ erf,erfc,erfi,
        fresnels,fresnelc,Ei,Ei,Li,Si,Ci,Shi,Chi,
        gamma,loggamma,digamma,zeta,polylog,LambertW,
        elliptic_f,elliptic_e,elliptic_pi,exp_polar
        ]

def is_hypergeometric_function(func):
    return func in [hyper]

def is_appell_function(func):
    return func in [appellf1]
```



```

def is_atom(expn):
    try:
        if expn.isAtom or isinstance(expn,int) or isinstance(expn,float):
            return True
        else:
            return False

    except AttributeError as error:
        return False

def expnType(expn):
    debug=False
    if debug:
        print("expn=",expn,"type(expn)=",type(expn))

    if is_atom(expn):
        return 1
    elif isinstance(expn,list):
        return max(map(expnType, expn)) #apply(max,map(ExpnType,expn))
    elif is_sqrt(expn):
        if isinstance(expn.args[0],Rational): #type(op(1,expn),'rational')
            return 1
        else:
            return max(2,expnType(expn.args[0])) #max(2,ExpnType(op(1,expn)))
    elif isinstance(expn,Pow): #type(expn,'`^`')
        if isinstance(expn.args[1],Integer): #type(op(2,expn),'integer')
            return expnType(expn.args[0]) #ExpnType(op(1,expn))
        elif isinstance(expn.args[1],Rational): #type(op(2,expn),'rational')
            if isinstance(expn.args[0],Rational): #type(op(1,expn),'rational')
                return 1
            else:
                return max(2,expnType(expn.args[0])) #max(2,ExpnType(op(1,expn)
))
        else:
            return max(3,expnType(expn.args[0]),expnType(expn.args[1])) #max(3,
ExpnType(op(1,expn)),ExpnType(op(2,expn)))
    elif isinstance(expn,Add) or isinstance(expn,Mul): #type(expn,'`+`') or type
(expn,'`*`')
        m1 = expnType(expn.args[0])
        m2 = expnType(list(expn.args[1:]))
        return max(m1,m2) #max(ExpnType(op(1,expn)),max(ExpnType(rest(expn))))
    elif is_elementary_function(expn.func): #ElementaryFunctionQ(op(0,expn))
        return max(3,expnType(expn.args[0])) #max(3,ExpnType(op(1,expn)))
    elif is_special_function(expn.func): #SpecialFunctionQ(op(0,expn))
        m1 = max(map(expnType, list(expn.args)))
        return max(4,m1) #max(4,apply(max,map(ExpnType,[op(expn)])))

```

```

elif is_hypergeometric_function(expn.func): #HypergeometricFunctionQ(op(0,
expn))
    m1 = max(map(expnType, list(expn.args)))
    return max(5,m1) #max(5,apply(max,map(ExpnType,[op(expn)])))
elif is_appell_function(expn.func):
    m1 = max(map(expnType, list(expn.args)))
    return max(6,m1) #max(5,apply(max,map(ExpnType,[op(expn)])))
elif isinstance(expn,RootSum):
    m1 = max(map(expnType, list(expn.args))) #Apply[Max,Append[Map[ExpnType,
Apply[List,expn]],7]],
    return max(7,m1)
elif str(expn).find("Integral") != -1:
    m1 = max(map(expnType, list(expn.args)))
    return max(8,m1) #max(5,apply(max,map(ExpnType,[op(expn)])))
else:
    return 9

#main function
def grade_antiderivative(result,optimal):

    leaf_count_result = leaf_count(result)
    leaf_count_optimal = leaf_count(optimal)

    expnType_result = expnType(result)
    expnType_optimal = expnType(optimal)

    if str(result).find("Integral") != -1:
        return "F"

    if expnType_result <= expnType_optimal:
        if result.has(I):
            if optimal.has(I): #both result and optimal complex
                if leaf_count_result <= 2*leaf_count_optimal:
                    return "A"
                else:
                    return "B"
            else: #result contains complex but optimal is not
                return "C"
        else: # result do not contain complex, this assumes optimal do not as
well
            if leaf_count_result <= 2*leaf_count_optimal:
                return "A"
            else:
                return "B"
    else:
        return "C"

```

4.0.4 SageMath grading function

```

#Dec 24, 2019. Nasser: Ported original Maple grading function by
#       Albert Rich to use with Sagemath. This is used to
#       grade Fracas, Giac and Maxima results.
#Dec 24, 2019. Nasser: Added 'exp_integral_e' and 'sng', 'sin_integral'
#       'arctan2','floor','abs','log_integral'

from sage.all import *
from sage.symbolic.operators import add_vararg, mul_vararg

debug=False;

def tree_size(expr):
    r"""
    Return the tree size of this expression.
    """
    if expr not in SR:
        # deal with lists, tuples, vectors
        return 1 + sum(tree_size(a) for a in expr)
    expr = SR(expr)
    x, aa = expr.operator(), expr.operands()
    if x is None:
        return 1
    else:
        return 1 + sum(tree_size(a) for a in aa)

def is_sqrt(expr):
    if expr.operator() == operator.pow: #isinstance(expr,Pow):
        if expr.operands()[1]==1/2: #expr.args[1] == Rational(1,2):
            if debug: print ("expr is sqrt")
            return True
        else:
            return False
    else:
        return False

def is_elementary_function(func):
    debug=False
    m = func.name() in ['exp','log','ln',
        'sin','cos','tan','cot','sec','csc',
        'arcsin','arccos','arctan','arccot','arcsec','arccsc',
        'sinh','cosh','tanh','coth','sech','csch',
        'arcsinh','arccosh','arctanh','arccoth','arcsech','arccsch','sgn',
        'arctan2','floor','abs'
    ]
    if debug:
        if m:

```

```

        print ("func ", func , " is elementary_function")
    else:
        print ("func ", func , " is NOT elementary_function")

    return m

def is_special_function(func):
    debug=False
    if debug: print ("type(func)=", type(func))

    m= func.name() in ['erf','erfc','erfi','fresnel_sin','fresnel_cos','Ei',
        'Ei','Li','Si','sin_integral','Ci','cos_integral','Shi','
sinh_integral'
        'Chi','cosh_integral','gamma','log_gamma','psi,zeta',
        'polylog','lambert_w','elliptic_f','elliptic_e',
        'elliptic_pi','exp_integral_e','log_integral']

    if debug:
        print ("m=",m)
        if m:
            print ("func ", func ," is special_function")
        else:
            print ("func ", func ," is NOT special_function")

    return m

def is_hypergeometric_function(func):
    return func.name() in ['hypergeometric','hypergeometric_M','hypergeometric_U
']

def is_appell_function(func):
    return func.name() in ['hypergeometric']    #[appellf1] can't find this in
sagemath

def is_atom(expn):

    debug=False
    if debug: print ("Enter is_atom")

    #thanks to answer at https://ask.sagemath.org/question/49179/what-is-sagemath-equivalent-to-atomic-type-in-maple/
    try:
        if expn.parent() is SR:

```

```

        return expn.operator() is None
    if expn.parent() in (ZZ, QQ, AA, QQbar):
        return expn in expn.parent() # Should always return True
    if hasattr(expn.parent(), "base_ring") and hasattr(expn.parent(), "gens"):
        return expn in expn.parent().base_ring() or expn in expn.parent().
gens()
    return False

except AttributeError as error:
    return False

def expnType(expn):

    if debug:
        print (">>>>Enter expnType, expn=", expn)
        print (">>>>is_atom(expn)=", is_atom(expn))

    if is_atom(expn):
        return 1
    elif type(expn)==list: #instance(expn,list):
        return max(map(expnType, expn)) #apply(max,map(ExpnType,expn))
    elif is_sqrt(expn):
        if type(expn.operands()[0])==Rational: #type(instance(expn.args[0],
Rational):
            return 1
        else:
            return max(2,expnType(expn.operands()[0])) #max(2,expnType(expn.
args[0]))
    elif expn.operator() == operator.pow: #instance(expn,Pow)
        if type(expn.operands()[1])==Integer: #instance(expn.args[1],Integer)
            return expnType(expn.operands()[0]) #expnType(expn.args[0])
        elif type(expn.operands()[1])==Rational: #instance(expn.args[1],
Rational)
            if type(expn.operands()[0])==Rational: #instance(expn.args[0],
Rational)
                return 1
            else:
                return max(2,expnType(expn.operands()[0])) #max(2,expnType(expn.
args[0]))
        else:
            return max(3,expnType(expn.operands()[0]),expnType(expn.operands()
[1])) #max(3,expnType(expn.operands()[0]),expnType(expn.operands()[1]))
    elif expn.operator() == add_vararg or expn.operator() == mul_vararg: #
instance(expn,Add) or instance(expn,Mul)
        m1 = expnType(expn.operands()[0]) #expnType(expn.args[0])
        m2 = expnType(expn.operands()[1:]) #expnType(list(expn.args[1:]))

```

```

    return max(m1,m2) #max(ExpnType(op(1,expn)),max(ExpnType(rest(expn))))
elif is_elementary_function(expn.operator()): #is_elementary_function(expn.
func)
    return max(3,expnType(expn.operands()[0]))
elif is_special_function(expn.operator()): #is_special_function(expn.func)
    m1 = max(map(expnType, expn.operands())) #max(map(expnType, list(
expn.args)))
    return max(4,m1) #max(4,m1)
elif is_hypergeometric_function(expn.operator()): #
is_hypergeometric_function(expn.func)
    m1 = max(map(expnType, expn.operands())) #max(map(expnType, list(
expn.args)))
    return max(5,m1) #max(5,m1)
elif is_appell_function(expn.operator()):
    m1 = max(map(expnType, expn.operands())) #max(map(expnType, list(
expn.args)))
    return max(6,m1) #max(6,m1)
elif str(expn).find("Integral") != -1: #this will never happen, since it
#is checked before calling the grading function that is passed.
#but kept it here.
    m1 = max(map(expnType, expn.operands())) #max(map(expnType, list(
expn.args)))
    return max(8,m1) #max(5,apply(max,map(ExpnType,[op(expn)])))
else:
    return 9

```

```
#main function
```

```
def grade_antiderivative(result,optimal):
```

```

    if debug: print ("Enter grade_antiderivative for sagemath")

    leaf_count_result = tree_size(result) #leaf_count(result)
    leaf_count_optimal = tree_size(optimal) #leaf_count(optimal)

    if debug: print ("leaf_count_result=", leaf_count_result, "
leaf_count_optimal=",leaf_count_optimal)

```

```

    expnType_result = expnType(result)
    expnType_optimal = expnType(optimal)

```

```

    if debug: print ("expnType_result=", expnType_result, "expnType_optimal=",
expnType_optimal)

```

```

    if expnType_result <= expnType_optimal:
        if result.has(I):
            if optimal.has(I): #both result and optimal complex

```

```
        if leaf_count_result <= 2*leaf_count_optimal:
            return "A"
        else:
            return "B"
    else: #result contains complex but optimal is not
        return "C"
else: # result do not contain complex, this assumes optimal do not as
well
    if leaf_count_result <= 2*leaf_count_optimal:
        return "A"
    else:
        return "B"
else:
    return "C"
```